| | VING INDEX |
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| A0.14 A0.15 A0.16 A0.17 A0.18 A0.20 A0.21 A0.22 | COVER PROJECT INFO CODE ANALYSIS ENERGY COMPLIANCE REPORT ENERGY COMPLIANCE REPORT ENERGY COMPLIANCE REPORT (DELETED) ENERGY COMPLIANCE REPORT (DELETED) SPECIFICATIONS SPECIFICATIONS SPECIFICATIONS |
| C1.01 C2.00 C2.01 C3.00 C4.00 C5.00 C5.01 | CIVIL TITLE SHEET GENERAL NOTES SHEET OVERALL SITE & UTILITY PLAN HORIZONTAL CONTROL PLAN OVERALL GRADING PLAN EROSION PLAN MISC DETAILS MISC DETAILS EROSION CONTROL DETAILS |
| A1.22 A1.23 A1.24 A1.25 A1.26 A1.27 A1.28 A1.51 A1.53 A1.54 A1.55 A1.56 A2.00 A2.01 A2.02 A2.03 A2.10 A2.11 A2.50 A2.51 A2.52 A2.53 A2.54 A3.10 A3.11 A3.12 A3.13 A5.00 A5.01 A5.02 A5.03 A5.04 A5.07 A5.08 A5.09 A5.10 A5.11 A5.12 A6.00 A6.01 | SITE PLAN OVERALL PLANS TYPICAL UNIT ENTRY & LOWER LEVEL FLOOR PLANS TYPICAL UNIT UNPER & ROOF LEVEL FLOOR PLANS LOT 124 UNPER LEVEL & ROOF PLANS LOT 133 ENTRY & LOWER LEVEL FLOOR PLANS LOT 133 ENTRY & LOWER LEVEL FLOOR PLANS LOT 133 UPPER LEVEL & NO ROOF PLANS LOT 133 UPPER LEVEL AND ROOF PLANS LOT 133 UPPER LEVEL AND ROOF PLANS LOT 134 UPPER LEVEL AND CONDITION TYPICAL UNIT REFLECTED CEILING PLANS LOT 124 ENTRY & LOWER LEVEL REFLECTED CEILING PLANS LOT 124 ENTRY & LOWER LEVEL REFLECTED CEILING PLANS LOT 124 UPPER LEVEL REFLECTED CEILING PLANS LOT 133 UNTERY & LOWER LEVEL REFLECTED CEILING PLANS LOT 133 UNTERY & LOWER LEVEL REFLECTED CEILING PLANS LOT 134 UNIT SECTION A-A TYPICAL UNIT SECTION C-C TYPICAL UNIT SECTION D-D TYPICAL STAIR PLANS & SECTIONS TYPICAL STAIR PLANS & SECTIONS TYPICAL STAIR PLANS & SECTIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS LOT 124 EXTERIOR ELEVATIONS LOT 133 EXTERIOR ELEVATIONS LOT 133 EXTERIOR ELEVATIONS LOT 133 EXTERIOR ELEVATIONS FOUNDATION DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS INTERIOR |



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FP2.0 TYPICAL UNIT REFLECTED CEILING PLAN
FP2.1 UNIT 124 REFLECTED CEILING PLAN
FP2.2 UNIT 133 REFLECTED CEILING PLAN
L1.1 LANDSCAPE PLAN
L1.2 LANDSCAPE DETAILS

E2.0 TYPICAL UNIT ENTRY AND LOWER LEVEL FLOOR PLANS
 E2.1 LOT 124 ENTRY & LOWER LEVEL FLOOR PLANS
 E2.2 LOT 133 ENTRY & LOWER LEVEL FLOOR PLANS
 E3.0 ONE-LINE DIAGRAM

E0.1 ELECTRICAL LEGEND & NOTES E1.0 ELECTRICAL SITE PLAN

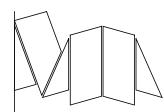
FP1.0 FIRE PROTECTION SPECIFICATIONS

DELTA REVISIONS 2017.06.26 - PLAN REVIEW RESPONSES AND BID CLARIFICATIONS



POWDER MOUNTAIN





architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. **16-101**

sma project name **POWDERCAT**

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CIVIL talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171

MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

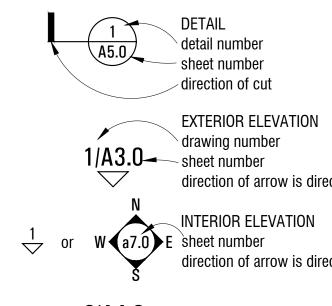


PROJECT

Π

| DRAFTING S | SYMBOLS |
|--|--|
| (#) (A) | GRID/COLUMN LINE |
| ±0'-0" | WORK, CONTROL, DATUM POINT, OR SPOT ELEVATION |
| <u>+</u> <u>+</u> <u>0</u> '- <u>0"</u> FFE | WORK, CONTROL, OR DATUM POINT |
| # | STUD SIZE REFERENCE frame wall type |
| | DENOTES ALIGNMENT |
| $\langle A \rangle$ | WINDOW MARK |
| # | DOOR MARK |
| • | FIRE SPRINKLER HEAD |
| SD | SMOKE DETECTOR |
| FIN#.#) | FINISH KEY |
| 9'-10 3/4" | FINISHED CEILING HEIGHT |
| 1 | REVISION DELTA |
| # | KEYNOTE |
| FE | PORTABLE FIRE EXTINGUISHER |
| | FLOOR RECEPTACLE |

DETAIL/SECTION MARKS



DETAIL detail number - sheet number direction of cut

EXTERIOR ELEVATION drawing number 1/A3.0- sheet number

direction of arrow is direction of view

direction of arrow is direction of view

3/A4.0

2/A4.4

 $\overline{}$

BUILDING SECTION direction of arrow is direction of view

WALL SECTION direction of arrow is direction of view

MATERIALS / HATCH LEGEND

| , |
|--------------|
| CONCRETE |
| AGGREGATE I |
| EARTH |
| RIGID INSULA |
| DECOMPOSE |
| BATT INSULA |
| GLASS, SMAL |
| PLYWOOD |
| wood, finish |
| GYPSUM WAL |
| STEEL |
| ALUMINUM |
| WOOD BLOCK |
| WOOD BLOCK |
| MDF |

GREGATE BASE COURSE

GID INSULATION

COMPOSED GRANITE

T INSULATION / FIRE SAFING

ASS, SMALL SCALE

OD, FINISH

PSUM WALLBOARD

OD BLOCKING, CONTINUOUS

OD BLOCKING, NOT CONTINUOUS

TO BE DEMOLISHED

ABBREVIATIONS

| ARRKEN | IATIONS | | |
|-----------|------------------|----------|-----------------|
| νB | anchor bolt | GWB, GYP | gypsum |
| BV | above | | wallboard |
| /DJ | adjacent | HDG | hot dip |
| FF | above finished | | galvanized |
| | floor | HDWD | hardwood |
| LU, ALUM | aluminum | HDR | header |
| EL | below | HC | hollow core |
| .0. | bottom of | HB | hose bibb |
| ОТ | bottom | HM | hollow metal |
| M | beam | HORZ | horizontal |
| ΠP | cast in place | HWH | hot water |
| L | centerline | | heater |
| LG | ceiling | I/S | inside |
| LR | clear | JT | joint |
| MU | concrete | LAV | lavatory |
| | masonry unit | MAS | masonry |
| OL | column | MAX | maximum |
| ONC | concrete | MFR | manufacturer |
| ONT | continuous | MTL | metal |
| J | control joint | MECH | mechanical |
| AI | diameter | MWK | millwork |
| R | door | MIN | minimum |
| TL | detail | Ν | north |
| E) | existing | N/A | not applicable |
| J | expansion | NIC | not in contract |
| | joint | NTS | not to scale |
| PB | electrical panel | 0/ | over |
| | board | 0.C. | on center |
| XG | existing | 0S, 0/S | outside |
| FE | finished floor | OD | outside |
| | elevation | | diameter |
| .0. | face of | OH | overhead |
| TG | footing | OP-SIT | opposite |
| βA | gauge | PNT | paint, -ed |
| ALV | galvanized | PSF | pounds per sq. |
| ìL | glass | | ft. |
| ЪLВ | glue - | PSI | pounds per sq. |
| | laminated | | in. |
| | beam | PL | property line |
| SN | general | PT, P-T | pressure |
| | structural | | treated |
| | notes | PTD | painted |
| | | | |

DEFERRED SUBMITTALS

GENERAL NOTE: Documents for deferred submittal items shall be sub design professional in responsible charge who shall review them and building official with a notation indicating that the deferred submittal d reviewed and been found to be in general conformance to the design of deferred submittal items shall not be installed until the design and subbeen approved by the building official.

- 1. fire sprinkler (by Others)
- 2. pre-fabricated wood i-joists (by Others)
- 3. pre-fabricated wood trusses (by Others) 4. window system wind-loading steel reinforcement, and calculations

Refer to the drawings for additional information.

BUILDING INSPECTION AND FIRE DISTRICT RE GENERAL NOTES:

- 1. Fire access roads for this project shall be completed and approv combustible construction. Temporary roads shall meet the same height, width and imposed loads as permanent roads.
- 2. All required fire hydrants and water systems shall be installed, functional prior to any combustible construction.
- 3. Fire department apparatus access is required for each lot. 4. If the building is equipped with a fire department connection (FD cement pad measuring 3 ft x 3 ft under the FDC (coordinate with regarding this).

APPROVED DOCUMENTS AND PERMIT SET:

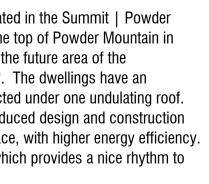
Contractor shall maintain all permits, and no less than one (1) approve construction documents on site and available for inspector review, inc building construction and deferred submittal scope, including fire supp alarm systems, and any other work requiring a permit.

PLANNING DEPARTMENT AND DEVELOPMENT

GENERAL NOTES: 1. As per Weber County LUC §108-2-4, All glass and windows sha glass".

2. As per Weber County LUC §108-2-4, All metal siding and metal "non-reflective metal".

| R | riser | GE 1. | NERAL NOTES Contractor to obtain all permit(s) required for work and include all costs within the bid. | PROJECT INFORN PROJECT DESCRIPTION: | 1ATION New single-family tow Mountain developmen | |
|---|--|-----------------|---|--|---|--|
| RA, R/A REV REF RO | return air revision reference, refer to rough open'g | 2. | Unless noted otherwise, Contractor to provide a completed AIA Form A305-1986, Contractor's Qualification Satement with bid submittal. Agreement between Owner and Contractor shall be Owner's form of construction agreement to be included in bidder instructions. The General Conditions of the Contract for Construction shall be AIA form A201-2007. | | Eden, Utah. The site is development known a individual expression, This shared structure cost, while increasing | s adjacent to the s "the village". T but are collected provides a reduc available space, |
| S SH SIM SOG | south shelving similar slab on grade | 3. | Contractor to provide a Critical Path Method (CPM) schedule with bid. Contractor to provide a parallel schedule indicating corresponding approval dates for parcel Owner sign-off for which an Owner upgrade or alternate is available - beyond this approval date, pending any approved schedule revisions, the base-bid condition will prevail. Owner and Contractor to establish a schedule and agreed-upon liquidated damages if work is not substantially complete by Contractor's proposed schedule. | | The dwellings vary in o the structure. The low profile of the s minimizes obstruction site allows for a multi- | structure is "neig s to views from |
| SPEC SSTL STL THK | specifications stainless steel steel thick, -ness | 4. | Provide dumpster. No trash allowed to be seen above top of dumpster. Contractor to leave the site in a neat and orderly manner, free of trash and debris, daily. Dispose of all trash, debris, and construction waste in a proper, legal manner. | | undulating roof as a la two levels. Views of t room window wall and views to the mountain windows. | rge, inviting and he valley are to t 1 bedroom windo |
| T.O. T.O.W. | top of top of wall | 5. 6. | Provide a temporary toilet and clean on not less than a weekly basis. Job should be staffed properly for the stage of construction - a superintendent to be present | | The building shell con | sists of wood fra |
| typ UNO | typical unless noted | | at all times during construction. | | insulated both in the s insulation at the exterio | tud cavities as w |
| U/G U/S | otherwise underground underside | 7. 8. | The first pay application may be submitted at the end of the first month of work. Pay application to be standard AIA forms G702 and G703, and to include only materials installed on the job, a full breakdown of the work, and all lien releases, conditional and unconditional. All changes will be done by fully executed Change Orders, signed by Owner, Contractor, | | The primary exterior m 'Corten' steel, with a m wood flooring, wood p | netal roof. Interio |
| VERT VG VIF | vertical vertical grain verify in field | 0. | and Architect, before the work is initiated. Change Orders shall include, at a minimum, any and all changes to the contract sum and contract time. Contractor is not authorized to make changes without a fully executed Change Order. Work performed not in accordance with the contract documents and without a fully executed Change Order shall be at the Contractor's | MARKET VALUE: | glass. | |
| W | wide, width, west | | sole risk. | PROJECT ADDRESS: | tbd / by owner Summit Powder Mo | untain developm |
| W/ WH WIN, WDW | with water heater window | 9. | Minimum standards of workmanship from the Utah Division for Occupational and Professional Licensing, National Association of State Contractor Licensing Agencies Residential Construction Standards, or respective trade organization shall not be used in determining the acceptability of work unless no other level of quality is specified. | ZONING: | Phase 1c, lots: 124 th Town house district, e | nrough 133 |
| W/0 W.0. | without where occurs | 10. | All disputes shall be settled by mediation and then litigation, unless otherwise stipulated in the Owner Contractor Agreement. | DISTRICT REGULATIONS: | minimum lot dime on site water and site | |
| | | 11. | Where the notes, drawings, or specifications disagree (whether within a discipline of work, or between disciplines), Contractor may request a clarification during the bidding period, otherwise the more stringent, or costly, requirement(s) shall govern. | NEGOLA HONG. | building setbacks , maximum height / lot coverage / 20% | / 0' front, 0' side 2 stories and 35 6 landscape requ |
| | | 12. | Establish and verify all openings and inserts for mechanical, electrical and plumbing w/ the appropriate trades, drawings and subcontractors prior to construction. Contractor to obtain approval from Owner indicating sign-off on all fixture, equipment, and other upgrades or alternates that may affect rough-in locations, or other trades, prior to commencing work. | LEGAL DESCRIPTION: | allowed uses / sin parking / 1 space refer to civil | gie-ramily oweili |
| | | 13. | Verify and coordinate all dimensions and conditions prior to starting work. Notify Architect | LOT AREA: | refer to civil for lot ar | eas; refer to rec |
| | | | of any discrepancies, inconsistencies, or conditions not covered in the documents in sufficient time so as to not cause delay. Contractor to hold preconstruction/preinstallation meetings prior to the start of any subcontractor's work. | BUILDING AREA: | refer to floor plans | |
| | | 14. | Details are applicable where indicated by section cut, by note or by detail title. Provide similar details at similar conditions unless noted otherwise. Contractor may request a clarification during the bidding period otherwise the more stringent, or costly, requirement(s) shall govern. | UTILITIES: | | tain power 10 ıntain water & se |
| submitted to t nd forward th Il documents | | 15. | The drawings show the completed Project, they do not include components that may be necessary for construction safety. Contractor is responsible for safety on and around the jobsite during construction and for repairing any damage caused by Contractor (including | OCCUPANCY: | 801.983.272 comm: (private) R-3 | 27 |
| gn of the build submittal doc | ling. The | 16. | damage to adjacent or public properties) at no additional cost to Owner. Dimensions: | CONSTRUCTION: | TYPE V-B | |
| | | | Do not scale drawings - use dimensions only. Dimensions shall take precedence over scale on Construction Documents. Contractor shall verify all dimensions and conditions in field. If a dimensional error | BUILDING CODES: | refer to building code a | analysis |
| ions (by Othe | rs) | | Contractor shall verify an unnersions and conductors in field. If a unnersional error occurs or a condition not covered in the drawings is encountered, Contractor shall notify Architect, in writing, before commencing that portion of the work. Dimensions, where shown, are normally given: to face of sheathing, concrete, or masonry (exterior) to face of finish, or finished face of cabinetry or fixture (interior) | PROJECT TEAM: | / master developer summit powder mo chief operating officer | |
| | | 17. | 3. to center lines The starting of work by any Contractor shall be considered <i>prima facie</i> evidence that he has inspected the Documents and examined the conditions under which materials will be | | director of design | sam arthur 949.370.2558 sam@summit |
| REQUIRE | MENTS | 18. | installed and finds them satisfactory. The contractor shall supervise and direct the work using best skill and attention. He shall be | | / project developer orr partners | |
| proved prior to ame requirem | • | | solely responsible for all methods, techniques, sequences, and procedures, and for coordination of all portions of the work under contract. Contractor shall be solely | | president | david orr 703.289.2112 |
| d, approved a | | | responsible for coordinating the sequence of work to avoid conflicts with equipment or fixture installation, or other conditions that may potentially be in conflict with previously installed work. | | partner | david.orr@orr ryan orr 703.289.2100 |
| (FDC) there s with fire inspe | | 19. | Apply, install, connect, erect, use, clean, and condition all manufactured articles, materials, and equipment in accordance w/ the manufacturer's written specifications, instructions and recommendations unless specified to the contrary herein. All materials for use shall be new unless otherwise noted. No asbestos or materials w/ pcb's shall be used on this Project. | | / design team architect / studio ma, | ryan.orr@orrp inc. / 602.251. |
| | | 20. | Caulk, seal, and/or weatherproof penetrations in walls, ceilings, and floors for plumbing, electrical, and other openings in the building envelope. Provide appropriate 'Quickflash' | | project designer | christopher alt alt@studioma |
| oved/stampe including pla uppression s | n sets for | | small-penetration flashing (http://www.quickflashproducts.com/), or equivalent, at all penetrations through the exterior envelope. Review all visible penetrations with Architect prior to installation; special care shall be taken with such penetrations; i.e. decorative sleeves shall be provided and/or a change to the material of the penetrating item shall be | | project architect project manager | dan hoffman hoffman@stud tim keil keil@studioma |
| | | 21. | made at the Architect's sole discretion and at no additional cost to the Owner. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed | | structural | mark rudow, r 480.946.8171 mrudow@rbis |
| NI REQU | IREMENTS | | with an air barrier material, suitable film or solid material: - all joints, seams and penetrations. | | mp&e | bob harris, pa |
| shall be "non | | | site-built windows, doors and skylights. openings between window and door assemblies and their respective jambs and framing. utility penetrations. | | landscape | bobh@mpeco eric langvardt, |
| etal roofing sh | iall be | | dropped ceilings, knee walls, or chases adjacent to the thermal envelope. walls and ceilings separating a garage, crawl space, or unconditioned basement, from conditioned spaces. behind tubs and showers on exterior walls. all penetrations and access openings through the subfloor or roof/attic framing rim joist junction. | | civil | 801.583.1295 eric@langvard ryan cathey, ta 801.743.1300 ryan.cathey@l |
| | | 00 | - other sources of infiltration. | | / contractor general contractor | TBD |
| | | 22. | Prime coat all surfaces (unless other finish is specified) at such areas which will be concealed by built-ins, cabinets, etc. | | | |
| | | 23. | All glazing, including vertical windows and skylights, to meet Building Code requirements - refer to window schedule for additional information. | | | |



eighbor friendly" in that it om uphill sites. The slope of the with the upper floor under the and generous room, organized on to the south through the living ndows on the lower two levels; north through the kitchen

framing members, and is highly s well as with continuous

vood siding and weathered erior materials consist of tile and sum drywall, and glass/frosted

pment located in Eden, UT, in the

ide, 5' rear 1 35' equirement vellings

recorded plat for addressing

k sewer improvement district

W)02 @summit.co

558 mit.co

12 orrpartners.com

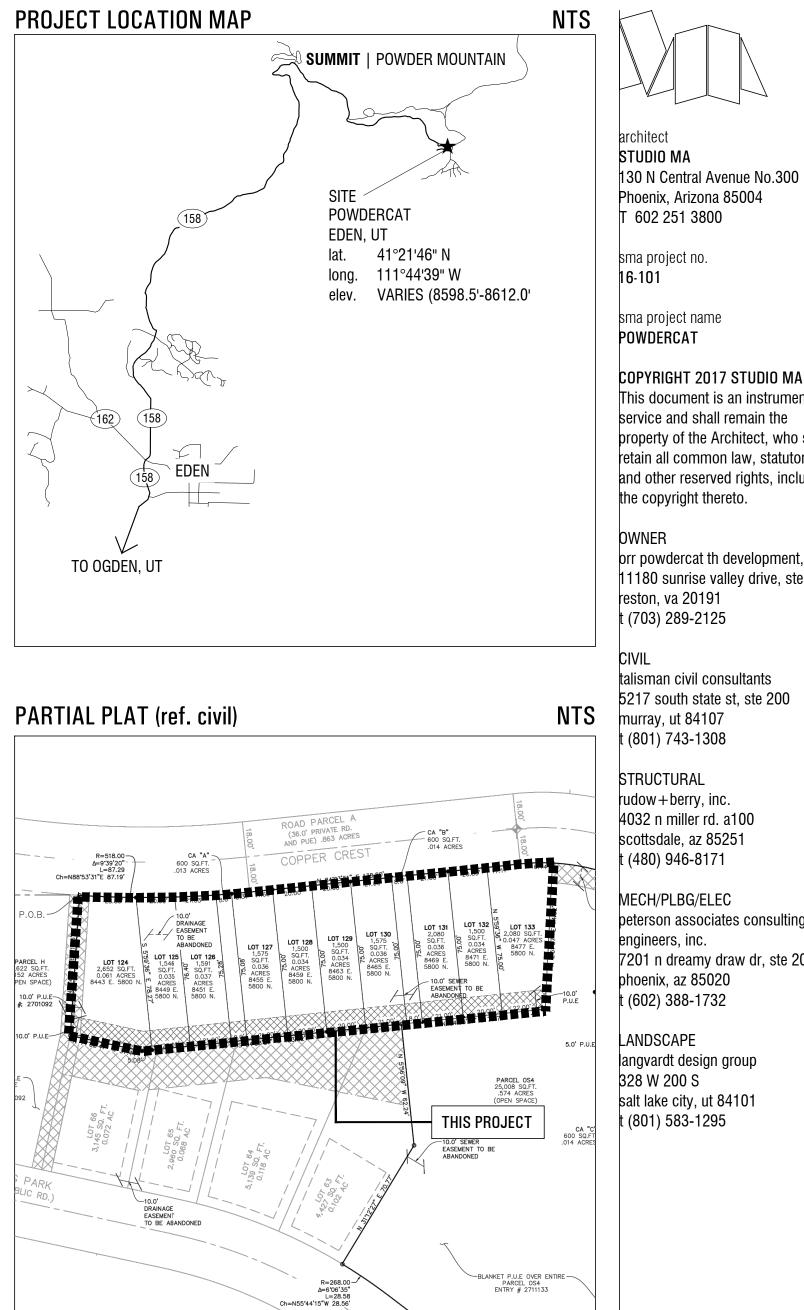
00 orrpartners.com

51.3800 alt ma.com

studioma.com

oma.com

, rudow + berry 71 bise.com pace 16 econsult.com rdt, langvardt design grp ardtdesigngroup.com , talisman civil consultants 300 @nv5.com



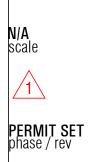
SITE AERIAL / OVERLAY



NTS

MANIEL HOFFMAN No. 7829867-0301 june 26, 2017







2017.06.01

sma project name POWDERCAT

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OWNER

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talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171

MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

SITE DATA

Project Location Summit | Powder Mountain development located in Eden. UT. in the Phase IC. Town House District, E-1.3.1. Lots: 124,125,126,127,128,129,130,131,132 and 133 Lat: 41°21'46" N Long: 111°44'39" W Elev: varies (8598.5'-8612.0') Site Area (sq. ft.): Refer to plat Legal Description: Refer to civil plans

Zoning: Town House District, E-1.3.1 Seismic Data: Refer to general structural notes

- Lot: Address:
- 124 8443 E Copper Crest Road 125 8449 E Copper Crest Road
- 126 8451 E Copper Crest Road
- 127 8455 E Copper Crest Road
- 128 8459 E Copper Crest Road
- 129 8463 E Copper Crest Road
- 130 8465 E Copper Crest Road 131 8469 E Copper Crest Road
- 132 8471 E Copper Crest Road
- 133 8477 E Copper Crest Road

WEBER COUNTY BUILDING CODE DATA

- Governing Building Codes:
- 2015 i-Codes 2009 ANSI A117.1
- 2014 NEC
- 2006 Wildland-Urban Interface Code

• Any amendments to the above mentioned codes as required by the Utah Code and the Utah Administrative Code.

Products:

All products listed by ICBO numbers, NER numbers, ICC-ES reports shall be installed per the report and manufacturer's written instructions and recommendations. Product substitutions for products listed shall also have ICBO approved evaluation reports or ICC-ES reports or be approved and listed by other nationally recognized testing agencies and acceptable to the authority having jurisdiction.

PROJECT DESCRIPTION

Occupancy:

Multiple single-family dwellings (townhouses) not more than three stories in height with separate means of egress. All dwellings are sprinklered and separated by common fire-resistance-rated party walls.

CH. 3 / BUILDING PLANNING

DESIGN CRITERIA Construction Type: Type V-B Evaluation Code: 2015 IRC with Utah amendments

Climate Zone: 5b [TABLE N1101.10 (TABLE R301.1)] Notes:

- 1. "B" designation indicates that location is considered "dry" as per Figure N1101.10 (R301.1).
- 2. Weber County Weather Data:

Heating Cost Index: 285.00 (usa.com) Cooling Cost Index: 145.67 (usa.com Average Temperature: 50.3° (usa.com) Avg. July High Temp.: 90.9° (weber cty) Avg. Jan. Low Temp.: 16.5° (weber cty) *Precipitation:* 17.2" (weber cty) Snow: 53.3" (weber cty) Wind Speed: 17.42 mph

Air Freezing Index: 2000 [FIGURE/TABLE R403.3(2)] Weathering Probability for Concrete: Severe [FIGURE R301.2(3)] Termite Infestation Probability: Moderate to Heavy [FIGURE R301.2(6)]

FIRE RESISTANT CONSTRUCTION Exterior Walls: SEE TABLE

Common Party (demising) Walls: each townhouse is considered a separate building and is separated by a common minimum 1-hour-fire-resistance-rated wall in accordance with R302.2, exc. 2, provided such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. Electrical installation shall be installed in accordance with Chapters 34 through 43. Penetrations shall be in accordance with Section R302.4 [R302.2]. Wall shall be continuous from footing to underside of roof sheathing [R302.2.1]. Parapets not required if the roof is Class C (min.) and roof sheathing is either noncombustible or fire-retardant-treated wood for a distance of 4' on each side of the wall [R302.2.2]. Structural independence of each townhome is not required [R302.2.4, exc. 5]

Note: the current drawings depict the party wall as an area separation wall as per UL design U 336, providing up to a 2 hour separation. Either a layer of noncombustible cementitious sheathing must be provided on top of the roof structure, or the roof sheathing must be fire-retardant-treated wood for a distance of 4' on either side of the wall, and a minimum Class C roof must be provided. Penetrations to be protected in accordance with R302.4, and per UL System No. W-L-7188.

Dwelling/Garage Fire Separation [TABLE R302.6] Walls: 1/2" thk. gwb applied to the garage side. Ceiling: 5/8" thk. Type X gypsum board.

Penetrations & Openings in Garage Walls: 1-3/8" min. thickness solid wood doors, solid or honeycomb-core steel doors, or 20-minute fire-rated doors, equipped with self-closing device [R302.5.1]. Ducts to be min. 26ga; no openings into garage [R302.5.2]. Other penetrations to be protected with approved materials but are not required to meet ASTM E 136 [R302.5.3; ref. R302.11.4].

Under Stair Protection: enclosed accessible space to be protected with min. ¹/₂" gwb [R302.7]. Foam Plastics: as per R316.

Flame Spread Index and Smoke Developed Index (per ASTM E84 or UL 273): For Wall and Ceiling Finishes: flame spread 200 max [R302.9.1]; smoke developed index 450 max [R302.9.2].

For Insulation: flame spread 25 max & smoke developed 450 max [R302.10.1]. Refer to R316 for foam plastics: flame spread 75 max [R316.3]; foam plastic in roofing

applications does not have to be separated by a thermal barrier, nor does it have a limitation on smoke developed index [R316.5.2], except where limited by other applicable codes or regulations.

Note: rigid foam insulation above structural roof deck to be XPS insulation.

Fireblocking: provide if wood frame, or combustible, construction in concealed floor and stair spaces, openings, chimneys and fireplaces [R302.11]. Materi Draftstopping: n/a

LIGHT. VENTILATION AND HEATING

Habitable Rooms (living, sleeping, eating, cooking): 8% min. gla windows, doors, etc.) 4% min. [R303.1].

Bathrooms: glazing 3 sq. ft. min.; ventilation 1.5 sq. ft. min., un mechanical exhaust is provided [R303.3]

Mechanical Ventilation: required if air changes are less than 5

Stairway Illumination: 1 fc on treads and landings with switches Required Heating: heating facilities capable of min. room temp.

MINIMUM ROOM AREAS

Rooms area: all habitable rooms not less than 70 sq. ft., except Dimensions: habitable rooms not less than 7 ft in any dimension

CEILING HEIGHT

Minimum Height: not less than 7 ft, unless a closet or not occu sloped ceilings at least 50% of required floor area to be 7 ft min Bathrooms may be 6'-8" min. [R305.1 exc. 1]

Note: current design provide a minimum ceiling height in the counter, of 7 ft. This height can be reduced if desired

SANITATION

Toilet Facilities: min. (1) water closet, lav, and bathrub or show Kitchen: kitchen area with sink [R306.2].

Sewage Disposal: sanitary sewer or approved private sewage Water Supply: fixtures connected to approved water supply; ho lavs, tubs, showers, bidets, laundry tubs, washing machine out

TOILET, BATH AND SHOWER SPACES

Space Required: as per R307.1 and P2705.1 Bathtub and Shower Spaces: floors, walls, and walls above tub nonabsorbent to 6 ft min. [R307.2].

GLAZING

Identification: safety and multi-pane glazing to be designated [CFR 1201, Category II [R308.1.1].

Safety Glazing: at all hazardous locations including glazing in do windows with lites > 9 sq. ft., bottom edge less than 18 inches than 36" above floor, walking surfaces within 36 inches; except Guards/rails [R308.4.4]; wet surfaces including enclosures for rooms, as fences/gates around hot tubs or pools [R308.4.5]; [R308.4.6].

Site Built Windows: ref. IBC Section 2404 [R308.5].

GARAGES AND CARPORTS

Floor Surface: noncombustible, sloped where for parking of auto vehicle entry doorway [R309.1]. Carports: n/a

Automatic Garage Door Openers: listed and labeled per UL 325 Fire Sprinklers: not required [R309.5].

EMERGENCY ESCAPE AND RESCUE OPENINGS

Emergency Escape and Rescue Required: basements, habitabl [R310.1]. Minimum size 5.7 sq. ft. min. net clear [R310.2.1]. 20" min. width [R310.2.1]. Maximum sill height 44" [R310.2.2 without keys, tools [R310.1.1].

MEANS OF EGRESS

Means of Egress: continuous, unobstructed, not through a gara

Egress Door: min. (1) side-hinged 32" min. clear width, 78" mi Floors and Landings at Exterior Doors: landing or floor on each less than the width of the door served, 36" in the direction of tra [R311.3]. 1.5" max. threshold height; exterior landing 7-3/4" door swings in (screen doors are ok) [R311.3.1]. Vertical Egress: stairs as per R311.7.

Hallways: min. 3 ft. [R311.6].

Stairs: 36" clear width (handrails may project into); min. 6'-8" 8" max. riser height & 9" min. tread depth (ref. amendment 15A on treads less than 11" depth; landings 36" min.; handrail on m wall or terminate in post or terminal [R311.7].

GUARDS AND WINDOW FALL PROTECTION

Guards: required where $> 30^{\circ}$ vertical. 36" min. guard height, Window Fall Protection: not required for windows > 24" A.F.F.

AUTOMATIC FIRE SPRINKLER SYSTEMS

Townhouses: required residential fire sprinkler system as per P unit except as follows: attics & unoccupied concealed spaces, than 55 sq. ft., garages, exterior porches, unheated entry areas

Per Utah State Fire Code Act, provide weather-proof horn/strobe side of the building as approved by the Fire Prevention Division; the fire inspector.

Provide interior horn/strobe device on each level of each unit w suppression system activation.

Fire suppression and fire alarm systems are deferred submittals documents for, and apply for, permits for said work and will ma by any inspector.

SMOKE ALARMS

Smoke Detection and Notification: listed and labeled per UL 21 72 [R314.1]. Locations required: sleeping rooms, outside slee level (only upper level of split level dwellings required); (1) per { with more than 1,000 sq. ft. [NFPA 72, 29.5.1.3]. Smoke alarm wireless communicating [R314.4].

CARBON MONOXIDE ALARMS

Carbon Monoxide Alarms: required outside each sleeping area 2075; per the IRC and NFPA 720 [R315]. Single-station alarms

FOAM PLASTIC (refer to dwelling/garage separation, above) Labeled per R316.2, flame spread 75 max., smoke-developed index 450 max., per ASTM E 84

| action in concealed floor and stair terials to be as per R302.11.1. | or UL 723. Separate from interior by 1/2" gwb (not req'd where separated by min. 1" concrete). Roofing applications do not require thermal barrier [R316]. Doors, incl. garage doors, exempt. | Cement Plaster: materials - ASTM C 91 (Type M, S or N), C 150 (Type I, II and III), C 595 Type IP, I (PM), IS and I (SM), C 847, C 897, C 926, C 933, C 1032, C 1047 and C 1328; install per ASTM C 1063. Gypsum lath per ASTM C 1396. |
|--|--|--|
| . glazing area; ventilation (operable | PROTECTION OF WOOD AND WOOD BASED PRODUCTS AGAINST DECAY Location Required: Naturally durable or preservative-treated wood required at 1) crawl spaces (n/a); 2) contact with concrete or masonry foundation walls closer than 8" to exposed ground; | Min. 3 coats o/ lath; 2 coats o/ other bases; veneer plaster 1 coat max. 3/16" thk., w/ total thickness per Table R702.1(1). SEE TABLE |
| unless electric lighting and | 3) sills & sleepers in direct contact with concrete on ground, unless separated by impervious moisture barrier; 4) ends of girders entering concrete or masonry walls w/ less than 1/2" clearance, all sides; 5) siding, sht'g, framing in exterior walls w/ less than 6" clear to grade, or | Support spacing for gypsum or metal lath on walls or ceilings not to exceed 16" for 3/8" thick, or 24" for 1/2" thick plain gypsum lath. Lath to be at right angles to supports with end joints in |
| 5 per hour [R303.4]. hes top & bottom [R303.7]. | 2" to concrete; 6) structural members exposed to weather; 7) members in contact with interior side of masonry or concrete walls below grade [R317.1]. | adjacent courses staggered not less than one framing space [R702.2.3]. |
| np. of 68-degrees [R303.9]. | Field Treatment: treatment of field-cut ends required [R317.1.1]. Ground Contact: n/a (<i>no wood embedded</i>) [R317.1.2] Geographical Areas: n/a [R317.1.3] Wood Columns: n/a (<i>no wood columns</i>) [R317.1.4] | Gypsum Board: compliance with ASTM standards, over wood framing not less than 2" nominal thickness in the least dimension or furring strips not less than 1"x2" nominal over solid backing, 24" o.c. max. [R702.3.1]. 5/8" gwb, ceilings, framing perp. @ 24" o.c. max - Type W screws @ 12" o.c. max. w/ not less than 5/8" penetration. (16" o.c. for framing 16" o.c., requ'd @ |
| cept kitchens [R304.1]. Ision, except kitchens [R304.2] | Quality Mark: pressure-preservative-treated wood to be marked with required information as per R317.2. Fasteners: coatings required at preservative-treated and fire-retardant treated wood required as | water-resistant gwb areas) [R702.3.5, 702.3.6, 702.3.8]. Exterior wall gwb attachment to be as per Item 38, Table R602.3(1) (Type S @ 7" o.c. field, |
| ccupiable [R305.1]. In rooms with min., and never less than 5 ft. | per R317.3. PROTECTION AGAINST SUBTERRANEAN TERMITES | and boundary). Water-resistant gwb @ base for nonabsorbent finish materials and ceramic tile to be ASTM C |
| t in the kitchen, above the back of | Chemical Termiticide treatment, and/or treated or naturally-durable woods, and/or physical barriers, and/or metal framing required [R318.1]. Where applicable, lumber to be marked [R318.1.1]. Foam plastics not required to be protected in this zone [R318.4, ref. R301.2(6)]. | 1396, C 1178, or C 1278. Do not install a Class I or II vapor retarder in a shower or tub compartment. Seal all cut or exposed edges as per mfr [702.3.7]. |
| ired to a minimum of 5 ft as noted. | SITE ADDRESS | Ceramic Tile: install per ANSI A108.1, 108.4, 108.5, 108.6, 108.11, 118.1, 118.3, 136.1, 137.1. Backers to be as per ASTM C 1288, C 1325, C 1178, or C 1278. |
| ower [R306.1]. | Address numbers required to be visible from street [R319]. Provide letters/numbers with height no less than 4" and stroke width no less than 0.5". Provide in contrasting color to background surface. | Other finishes: n/a Wood Shakes and Shingles: n/a |
| e disposal [R306.3]. hot and cold water to kitchen sinks, outlets [R306.4]. | ACCESSIBILITY Not required (single family structure), R320. | Vapor Retarders: Class I or II required on interior side of frame walls (Climate Zone 5), except where wall is below grade, or a basement wall. Class shall be as per mfr certified testing; Class I - sheet polyethylene, unperforated aluminum foil; Class II - kraft-faced fiberglass batts |
| | ELEVATORS AND PLATFORM LIFTS None [R321]. | [R702.7, R702.7.1]. EXTERIOR COVERING |
| tubs with shower heads to be | FLOOD RESISTANT CONSTRUCTION | Weather-resistance, water resistance, wind resistance and water-resistive barrier required [R703.1, R703.1.1]. Ref. TABLE R301.2(2) R301.2(3) for wind loads. |
| I [R308] and tested as per CPSC 16 | Not applicable (project is not in a flood hazard area) [R322]. STORM SHELTERS Not applicable (no storm shelters proposed as a part of this project) [R323]. | Steel Siding - over wood sht'g: min. 29ga, lap joints, w/ water-resistive barrier, corrosion-resistant 0.113 nail 1-3/4" (round head), ea. stud [TABLE 703.3(1)] Wood Siding (rain screen): |
| n doors, adjacent to doors, in ches above the floor, top edge more | CH. 4 / FOUNDATIONS | Flashing: corrosion-resistant flashing (self-adhered membranes used as flashing as per AAMA |
| ceptions for rails. [R308.4.3]. for bathtubs, showers, steam]; adjacent to stairs/ramps | Refer to Geotechnical Report for soils and foundation information. Refer to structural drawings for loads and design calculations. Drainage: min. 6" in 10' away from structure (grade); 2% @ impervious surfaces [R401.3]. Materials: concrete (ref. struct.) | 711) req'd @ ext. window and door openings; at intersection of chimneys; under and at the ends of masonry, wood or metal copings and sills; cont. above all projecting wood trim; where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction; wall and roof intersections; built-in gutters [R703.4]. |
| | Footings: design and support as per geotechnical report and structural drawings. Minimum Depth: extended below frost line [R403.1.4.1] | CH. 8 / ROOF-CEILING CONSTRUCTION |
| automobiles, to drain or to main | Slope: top surface to be level, bottom to slope not more than 10% [R403.1.5]. Footings adjacent to slopes - 12" plus 2% required [R403.1.7.3]. Frost-Protected Shallow Foundations: insulation to be as per ASTM C 578 [R403.3]. Protect, | Refer to structural for structural design and loads. Ventilation not required for unventilated attic and enclosed rafter assembly where insulation is Class II vapor barrier [R806.5]. |
| 325 [R309.4]. | and provide gravel below horizontal insulation below ground, with drain to daylight [R403.3.3]. Air Freezing Index: 2000 [FIGURE/TABLE R403.3(2), Utah, Weber County]. | CH. 9 / ROOF ASSEMBLIES |
| | Foundation Insulation: Provide extruded polystyrene insulation required [TABLE R403.3(1), footnotes d & e], calculated at 4.5R per inch (footnote c). | Classification: Class C per R302.2.2 Weather Protection: Coverings and flashings required [R903.2]. |
| able attics, sleeping rooms], 24" min. height [R310.2.1], .2.2]. Operational from inside | FOUNDATION DRAINAGE Required where foundation walls retain earth and enclose habitable space below grade. Perforated pipe to be installed at or below the area to be protected, with discharge to a drainage system by gravity. Perforated pipe to be placed on a min. of 2" of washed gravel, one sieve size larger than the perforation, and covered with not less than 6" of the same material. [R405]. | REQUIREMENTS FOR ROOF COVERINGS Application: per Code, mfr. and component and cladding pressures [R905]. Thermoset Single-Ply Roofing: 1/4" per foot (2%) min. slope; ASTM D 4434, ASTM D 6754, ASTM D 6878, or CGSB CAN/CGSB 37.54 [R905.13]. |
| <u>garage</u> [R311.1]. min. clear height [R311.2]. | FOUNDATION WATERPROOFING AND DAMPPROOFING Waterproofing from top of footing to finished grade required. All joints in membrane waterproofing to be lapped and sealed [R406.2]. | ROOF INSULATION [R906.2] Above-deck thermal insulation permitted if covered with roof covering and complies with FM 4450 or UL 1256. |
| ich side of each exterior door, not f travel; 1/4" / ft. max. slope | COLUMNS | CH. 10 / CHIMNEYS AND FIREPLACES |
| " max. below top of threshold if | Wood and steel column minimum sizes and protection to be as per R407. UNDER-FLOOR SPACE | Note: if specified, the fireplace stove, a free-standing, chimney-connected solid-fuel-burning heater is listed, labeled and installed in accordance with the conditions of the listing, with testing per UL 127 [R1004]. Combustion air as per R1006. |
| 8" headroom; 12 ft max. vert. rise; 15A-3-202.15). Nosings 3/4" min. | Not applicable (no under-floor space proposed) [R408] | CH. 11 / ENERGY EFFICIENCY |
| n min. 1 side, continuous, return to | CH. 5 / FLOORS Refer to structural drawings. | Ref. Energy Code CH. 12 - 23 / MECHANICAL |
| ıht, 4" max. openings [R312.1] | CH. 6 / WALL CONSTRUCTION Refer to structural drawings. | Ref. mechanical |
| F.F. [R312.2]. | WOOD FRAMING | CH. 24 / FUEL GAS Ref. mechanical and plumbing |
| er P2904. All areas of the dwelling es, clothes closets, bathrooms less eas (i.e mud rooms) [P2904.1.1]. | Sawn Lumber: DOC PS 20 Prefabricated Wood I-joists: ASTM D5055 Structural Glue Laminated Timber: ANSI/AITC A190.1 & ASTM D3737 Wood Structural Panels: DOC PS 1, DOC PS 2, or ANSI/APA PRP 210 | CH. 25 - 33 / PLUMBING Ref. plumbing |
| robe device located on the street | Preservative Treated Wood: AWPA Standard U1 and M4; Preservatives as per AWPA U1 | CH. 34 - 43 / ELECTRICAL Ref. electrical |
| ion; location to be coordinated with t which will activate upon fire | EXTERIOR WINDOWS AND DOORS Note: For site built windows, refer to Building Planning, Glazing, R308.5. Site built windows to comply with IBC Section 2404. | APPENDIX F / RADON CONTROL METHODS |
| Hala Dantaratan akallaran ara | Manufacturerd windows and doors to be installed and flashed in accordance with the | Radon resistant construction is assumed based on radon levels in excess of 4 pCi/L (radon.utah.gov) in accordance with Zone 1 requirements [TABLE AF101(1)]. Site-testing for |
| tals - Contractor shall prepare maintain permits on site for review | fenestration manufacturer's written installation instructions. Flash per Section R703.4. Design of windows and doors to be as required for wind loads per Table R301.2(2), adjusted for height and exposure per Table R301.2(3). Compliance and labeling for windows and sliding doors | radon levels required to confirm radon mitigation techniques required. Subfloor Preparation: gas-permeable, uniform layer of clean aggregate, min. 4" thick, passing through a 2" sieve and retained by a 1/4" sieve. |
| 917 installed as per IDC and NEDA | required as per AAMA/WDMA/CSA 101/I.S.2/A440. Hinged doors AAMA/WDMA/CSA 101/I.S.2/A440 or comply with R609.3 (ASTM E 330, glass ref. R308.4.1) [R609]. Garage | Soil-Gas-Retarder: min. 6-mil polyethylene flexible sheeting material placed on top of the gas-permeable layer; lap seams min. 12"; penetrations sealed. |
| 217, installed as per IRC and NFPA leeping rooms, on each additional er 500 sq. ft. floor area on levels arms to be interconnected or | doors ASTM E 330 or ANSI/DASMA 108. STRUCTURAL INSULATED PANEL WALL CONSTRUCTION Not applicable (none specified) [R610]. | Entry Routes: close/seal openings around bathtubs, showers, w/c, pipes, etc. with polyurethane caulk or equivalent sealant. Same for concrete joints. Condensate Drains, Sumps, Air-Handling Units, Ducts, etc.: ref. mechanical and plumbing Passive Subslab Depressurization System: ref. mechanical, plumbing, and electrical |
| | CH. 7 / WALL COVERING | APPENDIX K / SOUND TRANSMISSION |
| ea [R315.3]; devices listed per UL rms listed per UL 2034. | INTERIOR COVERING Note: for flame spread & smoke-development requirements, ref. R302.9 | For separation between dwelling units: Wall Assemblies: min. STC 45 when tested as per ASTM E 90. Concrete masonry assemblies |
| ed index 450 max., per ASTM E 84 | Interior Plaster: Gypsum Plaster: materials - ASTM C 5, C 22, C 28, C 35, C 59, C 61, C 587, C 631, C 847, C 933, C 1032, C 1047; install per ASTM C 843 and C 844. Lath/base for veneer plaster ASTM C | to be as per TMS 0302 or testing in accordance with ASTM E 90. Floor-Ceiling Assemblies: n/a |
| יש וושטא דטט ווומא., אָדו אט וועו ב 04 | 1396. | The sound transmission class (STC rating) of a double stud wall per USG 050819 is STC 66. |

The sound transmission class (STC rating) of a double stud wall per USG 050819 is STC 66.

IECC REQUIREMENTS

(Note: Due to project location and altitude, project requirements are based on Climate Zone 6)

| | INSL | JLATION | TABL AND FENE | | 2.1.1 [IEC Fion Req | | | COMPON | IENT ^a | |
|----------------|------|--|------------------|------------------------|----------------------------------|--|------------------|--|---|--|
| CLIMAT ZONE | | SKYLIGHT <i>U-</i> FACTOR ^b | FENES- | CEILING R- VALUE | WOOD FRAME WALL R-VALUE | MASS WALL <i>R</i> -VALUE ⁱ | FLOOR R-VALUE | BASEMENT ^C WALL R-VALUE | SLAB ^d R-VALUE & DEPTH | CRAWL SPACE ^c WALL R-VALUE |
| 6 | 0.32 | 0.55 | NR | 49 | 20+5 or 13+10 ^h | 15/20 | 30 ^g | 15/19 | 10, 4 ft | 15/19 |

R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.

| "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 |
|---|
| cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met |
| with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous |
| insulation on the interior or exterior of the home. "10/13" means R-10 continuous |
| insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of |
| the basement wall. |

d. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

e. There are no SHGC requirements in the Marine Zone. Basement wall insulation is not required in warm-humid locations as defined by Figure f R301.1 and Table R301.1

Or insulation sufficient to fill the framing cavity, R-19 minimum.

mass wall.

First value is cavity insulation, second is continuous insulation or insulated siding, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation or insulated siding. If structural sheathing covers 40 percent or less of the exterior, continuous insulation R-value shall be permitted to be reduced by no more than R-3 in the locations where structural sheathing is used – to maintain a consistent total sheathing thickness. The second R-value applies when more than half the insulation is on the interior of the

| | 2015 INTERNATIONAL RESIDENTIAL CODE | | | | | | | | | | |
|--|-------------------------------------|--|---------|---|-------|---------------------|---------------------------------------|---|-------------------------------|--------------------------------------|-------------------------------------|
| TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA | | | | | | | | | | | |
| ROUND SNOW LOAD (psf) | WINI SPEED ^d (mph) | D DESIGN TOPO- GRAPHIC EFFECTS ^k | SEISMIC | SUBJECT T WEATHER- ING ^a | FROST | ge from Termite⁰ | WINTER DESIGN TEMP ^e | ice Barrier Under- Layment Required ¹ | FLOOD HAZARDS ^g | Air Freez'g Index ⁱ | mean Annual Temp ^j |
| 263.1 | 115 | ? | D | SEVERE | 3'-6" | MOD - HEAVY | -9.6°F | YES | ? | 1500 BF-days | 45°F |

Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index (i.e., "negligible," "moderate" or "severe") for concrete as determined from the Weathering Probability Map [Figure R301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.

The frost line depth may require deeper footings than indicated in Figure R403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.

The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind

- speed map [Figure R301.2(4)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4. e. The outdoor design dry-bulb temperature shall be selected from the columns of
- 971/2-percent values for winter from Appendix D of the International Plumbing Code. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official. f. The jurisdiction shall fill in this part of the table with the seismic design category
- determined from Section R301.2.2.1.
- The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and (c) the panel numbers and dates of all currently effective FIRMs and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended.
- In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
- The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at www.ncdc.noaa.gov/fpsf.html.
- The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at www.ncdc.noaa.gov/fpsf.html.
- In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

TABLE R302.1(2) DWELLINGS WITH FIRE SPRINKLERS

MINIMUM FIRE-RESISTANCE RATING

hour-tested in accordance with ASTM E

119 or UL 263 with exposure from the outside

1 hour on the underside

N/A

0 hours

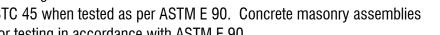
Comply with Section R302.4

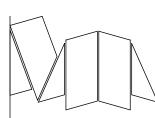
None required

| s of 4 pCi/L | | EXTERIOR WALLS- |
|------------------------|-------------------|---------------------------|
| (1)]. Site-testing for | EXTERIO | R WALL ELEMENT |
| | Walls | Fire-resistance rated |
| nin. 4" thick, passing | | Not fire-resistance rated |
| | Designations | Fire-resistance rated |
| ed on top of the | Projections - | Not fire-resistance rated |
| | Openings in walls | Not allowed |
| | Openings in wans | Unlimited |
| etc. with polyurethane | Penetrations | A11 |

For SI: 1 foot = 304.8 mm. ps, Air-Handling Units, Ducts, etc.: ref. mechanical and plumbing N/A = Not Applicable

a. For residential subdivisions where all dwellings are equipped throughout with an automatic sprinkler systems installed in accordance with Section P2904, the fire separation distance for nonrated exterior walls and rated projections shall be permitted to be reduced to 0 feet, and unlimited unprot penetrations shall be permitted, where the adjoining lot provides an open setback yard that is 6 feet or more in width on the opposite side of the property line





STUDIO MA 130 N Central Avenue No.300 Phoenix. Arizona 85004 Г 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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OWNER

orr powdercat th development, llc 11180 sunrise vallev drive, ste 300 reston, va 20191 t (703) 289-2125

talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

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ANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





scale

MINIMUM FIRE SEPARATION DISTANCE

0 feet

2 fee 3 fee

< 3 feet

3 fee

< 3 feet

3 fee

Powdercat Lots 125 - 132 2015 IECC Ogden, Utah Multi-family Construction Type: New Construction Unspecified Conditioned Floor Area: 16,415 ft2 **20%** 5 (5557 HDD)

Construction Site: 8449 E Copper Crest Rd Eden, UT 84310

Project

Energy Code:

Project Type:

Glazing Area

Permit Date: Permit Number:

Climate Zone:

Orientation:

Location:

Owner/Agent: Orr Powdercat Th Development, 110 11180 Sunrise Valley Drive, Ste 300 Reston, VA 20191 703-289-2125

1

Designer/Contractor: Studio Ma, Inc. 130 N. Central Ave #300 Phoenix, AZ 85004 602-251-3800

keil@studioma.com

Compliance: 15.7% Better Than Code Maximum UA: 4375 Your UA: 3686 The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

REScheck Software Version 4.6.4

Compliance Certificate

Envelope Assemblies

full building.rck

Compliance: Passes using UA trade-off

| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | U-Factor | UA |
|---|-------------------------------|-------------------|------------------|----------|------|
| Metal Roof o/ Truss: Flat Ceiling or Scissor Truss | 7,067 | 38.0 | 12.5 | 0.022 | 155 |
| Membrane Roof (Terrace) o/ 14"D Joists: Flat Ceiling or Scissor Truss | 2,255 | 38.0 | 30.0 | 0.016 | 36 |
| Soffit: All-Wood Joist/Truss:Over Outside Air | 438 | 38.0 | 0.0 | 0.026 | 11 |
| Garage + Utility Floor/Ceiling: All-Wood Joist/Truss:Over Unconditioned Space | 3,577 | 38.0 | 0.0 | 0.026 | 93 |
| Slab on Grade: Slab-On-Grade:Heated Insulation depth: 6.0' | 1,861 | | 15.0 | 0.655 | 1219 |
| Above Grade Walls (1-1/2" Insul): Wood Frame, 16" o.c. Orientation: Unspecified | 5,370 | 21.0 | 6.5 | 0.040 | 128 |
| Window: Wood Frame:Double Pane with Low-E Orientation: Unspecified | 1,004 | | | 0.270 | 271 |
| Door: Solid Orientation: Unspecified | 1,177 | | | 0.400 | 471 |
| Above Grade Walls (3" Insul): Wood Frame, 16" o.c. Orientation: Unspecified | 13,417 | 21.0 | 12.9 | 0.032 | 339 |
| Window: Wood Frame:Double Pane with Low-E Orientation: Unspecified | 2,808 | | | 0.300 | 842 |
| Retaining Walls (3" Insul): Solid Concrete or Masonry Orientation: Unspecified Wall height: 10.0' Depth below grade: 9.5' Insulation depth: 10.0' | 2,962 | 0.0 | 15.0 | 0.041 | 121 |

| Section # & Req.ID | Foundation Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|--------------------------------------|---|-------------------------|-------------------------|--|---|
| 402.1.2 [FO1] ¹ @ | Slab edge insulation R-value. | R Unheated Heated | R Unheated Heated | □Complies □Does Not □Not Observable □Not Applicable | See the Envelope Assemblies table for values. |
| 402.1.2 [FO3] ¹ | Slab edge insulation depth/length. | ft | ft | □Complies □Does Not □Not Observable □Not Applicable | See the Envelope Assemblies table for values. |
| 402.1.1 [FO4] ¹ | Conditioned basement wall insulation R-value. Where interior insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3. | R R | R R | □Complies □Does Not □Not Observable □Not Applicable | See the Envelope Assemblies table for values. |
| 303.2 [FO5] ¹ @ | Conditioned basement wall insulation installed per manufacturer's instructions. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec: a0.21 |
| 402.2.9 [FO6] ¹ (9) | Conditioned basement wall insulation depth of burial or distance from top of wall. | ft | ft | □Complies □Does Not □Not Observable □Not Applicable | See the Envelope Assemblies table for values. |
| 303.2.1 [FO11] ² @ | A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec: a0.21, a5.00 |
| 403.9 [FO12] ² | Snow- and ice-melting system controls installed. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec: M0.3 |

Additional Comments/Assumptions:

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 4 of10 full building.rck



full building.rck

| Dan Hoffman Name - Title Project Notes: Unit address: 8443 Lot 124 8449 Lot 125 8451 Lot 126 8455 Lot 127 | Signature | Date |
|--|--|------|
| Unit address: 8443 Lot 124 8449 Lot 125 8451 Lot 126 8455 Lot 127 | | |
| 8443 Lot 124 8449 Lot 125 8451 Lot 126 8455 Lot 127 | | |
| 8449 Lot 125 8451 Lot 126 8455 Lot 127 | | |
| 8451 Lot 126 8455 Lot 127 | | |
| 8455 Lot 127 | | |
| | | |
| 8459 Lot 128 | | |
| 8463 Lot 129 | | |
| 8465 Lot 130 | | |
| 8469 Lot 131 | | |
| 8471 Lot 132 | | |
| 8477 Lot 133 | | |
| | DANIEL HOFFMAN No. 7829867-0301 06/27/2017 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Project Title: Powdercat Lots 125 - 132

Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 2 of 10

| Section # | Framing / Rough-In Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|---|--|-------------------------|-------------------------|--|---|
| & Req.ID 402.1.1, 402.3.4 FR1] ¹ @ | Door U-factor. | U | U | Complies Does Not Not Observable | See the Envelope Assemblies table for values. |
| 402.1.1, 402.3.1, 402.3.3, 402.3.6, 402.5 [FR2] ¹ | Glazing U-factor (area-weighted average). | U | U | Complies Does Not Not Observable | <i>See the Envelope Assemblies table for values.</i> |
| 303.1.3 [FR4] ¹ © | U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec: a6.10 |
| 402.4.1.1 [FR23] ¹ © | Air barrier and thermal barrier installed per manufacturer's instructions. | | | Complies Does Not Not Observable | Requirement will be met. Location on plans/spec: a0.20-a0.21 |
| 402.4.3 [FR20] ¹ ፪ | Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. |
| 402.4.5 [FR16] ² | IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate \leq 2.0 cfm leakage at 75 Pa. | | | Complies Does Not Not Observable | Exception: Requirement is not applicable. |
| 403.2.1 [FR12] ¹ ② | Supply and return ducts in attics insulated $>=$ R-8 where duct is >= 3 inches in diameter and $>=R-6 where < 3 inches. Supply andreturn ducts in other portions ofthe building insulated >= R-6 fordiameter >= 3 inches and R-4.2for < 3 inches in diameter.$ | | | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M3.0 |
| 403.3.3.5 [FR15] ³ © | Building cavities are not used as ducts or plenums. | | | Complies Does Not Not Observable | Requirement will be met. |
| 403.4 [FR17] ² ම | HVAC piping conveying fluids above 105 $^{\circ}$ F or chilled fluids below 55 $^{\circ}$ F are insulated to \geq R- 3. | R | R | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M3.0 |
| 403.4.1 [FR24] ¹ © | Protection of insulation on HVAC piping. | | | Complies Does Not Not Observable | Requirement will be met. Location on plans/spec: M3.0 |
| 403.5.3 [FR18] ² @ | Hot water pipes are insulated to ≥R-3. | R | R | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec: P0.1 |
| 403.6 [FR19] ² | Automatic or gravity dampers are installed on all outdoor air intakes and exhausts. | | | Complies Does Not Not Observable | Requirement will be met. Location on plans/spec: M0.1 |

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 5 of 10

REScheck Software Version 4.6.4 **Inspection Checklist** Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the REScheck software Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID | Pre-Inspection/Plan Review | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|--|---|--|--|--|--|
| 103.1, 103.2 [PR1] ¹ © | Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents. | | | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: a0.10 |
| 103.1, 103.2, 403.7 [PR3] ¹ 🔞 | Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions. | | | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M0.1, M0.3 |
| 302.1, 403.7 [PR2] ² ④ | Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official. | Heating: Btu/hr Cooling: Btu/hr | Heating: Btu/hr Cooling: Btu/hr | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M0.1 |

Additional Comments/Assumptions:

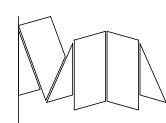
Project Title: Powdercat Lots 125 - 132 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 3 of 10 full building.rck

Additional Comments/Assumptions:

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Project Title: Powdercat Lots 125 - 132 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 6 of 10 full building.rck

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

Report date: 06/27/17



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





N/A scale

PERMIT SET phase / rev **2017.06.01** date

Report date: 06/27/17

| Section # & Req.ID | Insulation Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptio |
|--|--|----------------------------|----------------------------|--|--|
| 303.1 [IN13] ² | All installed insulation is labeled or the installed R-values provided. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. |
| 402.1.1, 402.2.6 [IN1] ¹ ③ | Floor insulation R-value. | R _ Wood _ Steel | R U Wood Steel | □Complies □Does Not □Not Observable □Not Applicable | See the Envelope Assemblies table for values. |
| 303.2, 402.2.7 [IN2] ¹ | Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members. | | | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec a5.03 |
| 402.1.1, 402.2.5, 402.2.6 [IN3] ¹ © | Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10). | R Wood Mass Steel | R Wood Mass Steel | □Complies □Does Not □Not Observable □Not Applicable | See the Envelope Assemblies table for values. |
| 303.2 [IN4] ¹ | Wall insulation is installed per manufacturer's instructions. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec a0.20-a0.21 |

Additional Comments/Assumptions:

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 7 of10 full building.rck

| Section # & Req.ID | Final Inspection Provisions | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|--------------------------------|--|-------------------------|-------------------------|------------------------------------|--|
| 404.1.1 [FI23] ³ | Fuel gas lighting systems have no continuous pilot light. | | | □Complies □Does Not | Exception: Requirement is not applicable. |
| 0 | | | | □Not Observable □Not Applicable | |
| 401.3 [FI7] ² | Compliance certificate posted. | | | □Complies □Does Not | Requirement will be met. |
| | | | | □Not Observable □Not Applicable | |
| 303.3 [FI18] ³ | Manufacturer manuals for mechanical and water heating | | | □Complies □Does Not | Requirement will be met. |
| | systems have been provided. | | | □Not Observable □Not Applicable | |

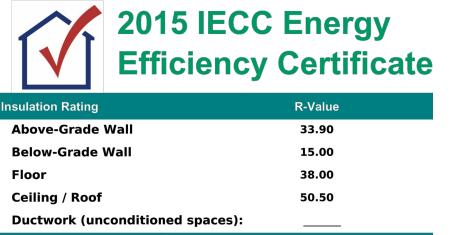
Additional Comments/Assumptions:

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 10 of10 full building.rck

| Section # | Final Inspection Provisions | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|---|--|----------------------------|----------------------------|--|--|
| & Req.ID 402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹ | Ceiling insulation R-value. | R Wood Steel | R Wood Steel | Complies Does Not Not Observable Not Applicable | See the Envelope Assemblies table for values. |
| 303.1.1.1, 303.2 [FI2] ¹ | Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² . | | | Complies Does Not Not Observable | Requirement will be met. Location on plans/spec: a0.20, a5.04 |
| 402.2.3 [FI22] ² | Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation. | | | Complies Does Not Not Observable Not Applicable | Exception: Requirement is not applicable. |
| 402.2.4 [FI3] ¹ | Attic access hatch and door insulation ≥R-value of the adjacent assembly. | R | R | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: There are no accessible att spaces |
| 402.4.1.2 [FI17] ¹ | Blower door test @ 50 Pa. <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8. | ACH 50 = | ACH 50 = | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| 402.4.2 [FI8] ² | Wood-burning fireplaces have tight fitting flue dampers and outdoor air for combustion. | | | Complies Does Not Not Observable Not Applicable | Requirement will be met. Location on plans/spec: Specification section 10 30 |
| 403.2.3 [FI4] ¹ | Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection. | cfm/100 ft ² | cfm/100 ft ² | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M0.3 |
| 403.3.2 [FI27] ¹ | Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure. | cfm/100 ft ² | cfm/100 ft² | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M0.3 |
| 403.3.2.1 [FI24] ¹ | Air handler leakage designated by manufacturer at <=2% of design air flow. | | | Complies Does Not Not Observable Not Applicable | Exception: Requirement is not applicable. |
| 403.1.1 [FI9] ² | Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications. | | | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: M3.0 |
| 403.1.2 [FI10] ² | Heat pump thermostat installed on heat pumps. | | | □Complies □Does Not □Not Observable □Not Applicable | Exception: Requirement is not applicable. |

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 8 of10 full building.rck



| Glass & Door Rating | U-Factor | SHGC |
|-----------------------------|------------|------|
| Window | 0.30 | |
| Door | 0.40 | |
| Heating & Cooling Equipment | Efficiency | |
| Heating System: | | |
| Cooling System: | | |
| Water Heater: | | |
| | | |
| Name: | Date: | |

Name: Comments

| Section # | Final Inspection Provisions | Plans Verifi Value |
|----------------------------------|--|-----------------------|
| & Req.ID | Circulating convice bot water | |
| 403.5.1 [FI11] ² | Circulating service hot water systems have automatic or accessible manual controls. | |
| 403.6.1 [FI25] ² | All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits. | |
| 403.2 [FI26] ² | Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature. | |
| 403.5.1.1 [FI28] ² | Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermos- syphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists. | |
| 403.5.1.2 [FI29] ² | Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping. | |
| 403.5.2 [FI30] ² | Water distribution systems that have recirculation pumps that pump water from a heated water supply pipe back to the heated water source through a cold water supply pipe have a demand recirculation water system. Pumps have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to 104°F. | |
| 403.5.4 [FI31] ² | Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water- side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers. | |
| 404.1 [FI6] ¹ | 75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting. | |

ed

1 High Impact (Tier 1) 2 Medium II

Project Title: Powdercat Lots 125 - 132 full building.rck

| Field Verified Value | Complies? | Comments/Assumptions |
|-------------------------|--|--|
| | □Complies □Does Not | Requirement will be met. |
| | □Not Observable □Not Applicable | Location on plans/spec: P0.1, P0.2 |
| | □Complies □Does Not | Exception: Requirement is not applicable. |
| | □Not Observable □Not Applicable | |
| | □Complies □Does Not | Requirement will be met. |
| | □Not Observable □Not Applicable | Location on plans/spec: M0.3 |
| | Complies | Requirement will be met. |
| | □Not Observable □Not Applicable | Location on plans/spec: M0.2 |
| | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: P0.1 |
| | □Complies □Does Not □Not Observable □Not Applicable | Exception: Requirement is not applicable. |
| | □Complies □Does Not □Not Observable □Not Applicable | Exception: Requirement is not applicable. |
| | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Location on plans/spec: ARCH |
| | | 1 |

Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 9 of 10

architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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LANDSCAPE angvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





N/A scale

GENERAL REQUIREMENTS

Administrative Requirements

01 30

PROJECT MANAGEMENT AND COORDINATION: This project occurs within a development owned and controlled by Summit Mountain Holding Group, the Master Developer. Contractor shall coordinate with Master Developer for approval of construction mitigation plan, staging and laydown areas, cross-parcel access, temporary utilities, and snow removal on private roads.

The Contractor will be responsible for providing all labor, material, equipment, services, and transportation necessary for the construction of the Project, including engaging all jurisdictional and service providers for coordination of inspections, utility connections, and approvals.

Owner-furnished Contractor-Installed items will be managed by the Contractor. The Contractor will provide a CPM schedule indicating when all OFCI items must be received on-site for maintaining the project schedule, will provide coordination with the Work, and will handle, store, assemble, install, and connect such items, including furnishing accessories, etc. as required for serviceable and operative condition. The Contractor will coordinate with the Architect to review all fixture and utility rough-ins, openings, supports, dimensions, etc. as required for a coordinated installation of all fixtures, equipment, and OFCI items.

Contractor is solely responsible for construction schedule, including without limitation, procurement, sequencing of work, and permitting. Contractor will schedule all inspections, and obtain all certifications from local, county, or state officials as required for every element of the project requiring review and approval.

Contractor shall notify the Architect immediately if Contractor observes any part of the Construction Documents are at variance in any respect to applicable laws, statutes, building codes and regulations. If the Contractor performs Work knowing it to be in conflict with such laws, ordinances, rules and regulations then the Contractor will assume full responsibility and bear the attributable costs for correcting the Work.

Progress Meetings - Contractor will convene a regular project team meeting at a time and location convenient to all parties to review the following topics:

- 1. Ongoing business
- 2. Review of RFI log
- 3. Review of Submittal log 4. Field report action items
- 5. Overall project CPM schedule, and 3-week look-ahead schedules
- 6. Permit status for deferred submittal items
- 7. Items required by construction team to maintain schedule

8. Cost tracking, buyout, and design evolution logs

Contractor will record minutes and distribute to all parties.

Special Meetings - Contractor will also hold meetings for the following:

Preconstruction conference - prior to commencing work on the site, a full project team meeting will be held to establish and review the following:

- Project overview 2. Schedule of Work
- 3. Procedures
- 4. Team representatives
- 5. Schedule of Values
- Subcontractor list and gualifications

Pre-installation conferences - prior to commencing work on any major system, scope, or finish the Contractor will schedule a meeting with the Architect and Subcontractor (and manufacturer representative(s) when applicable), and will record minutes and distribute to all parties. At a minimum, the following scope must be reviewed:

- 1. Concrete formwork and placing, and below-grade waterproofing
- 2. Structural framing (structural steel and wood stud)
- 3. Building Envelope: weatherproofing, wood and metal cladding, etc. 4. Windows and exterior doors
- 5. Roofing 6. Sheet metal fabrications
- 7. Sealants and firestopping
- 8. Fire sprinkler system
- 9. Mechanical and plumbing systems
- 10. Finishes: gypsum board, wood floor, tile, carpet, painting, etc.

RFI AND SUBMITTAL PROCEDURES:

Submit all formal requests for information on the provided form, indicating the referenced drawing/detail and/or specification section requiring clarification. Contractor is to make good faith efforts to fully examine the documents for answers to questions prior to submitting formal RFI's. All questions should be presented as soon as possible to the Architect and Engineer for resolution - questions and associated responses may be submitted as "confirming RFI's" to maintain progress on the Work. All questions from Subcontractors must be submitted through the Contractor - no direct correspondence from Subcontractors will be addressed by the Architect or Engineer without the participation of the General Contractor.

All submittals are to be made in accordance with a submittal schedule to be prepared by the Contractor which accounts for review time, approval time, resubmittal and review, and procurement so as not to delay the project. Failure to properly submit required materials in a timely manner will not be cause for any schedule extension or additional money to the Contractor. Refer to Submittal Matrix contained herein for submittals requiring samples and mockups. Contractor is responsible for all costs associated with obtaining all sample materials and preparing assembly mockups for Architect/Owner approval so as not to delay the project.

Submit clean, original PDF documentation and shop drawings for all specified materials, assemblies, and systems. Submit material and product samples in quantities as follows: (1) for Architect review; (1) for Contractor records; (1) for Owner's Representative. Contractor is responsible for engaging qualified design/builders for all deferred submittal scope including, but not limited to, fire sprinklers, fabricated wood joists, and fireproofing and fire stopping systems, and window wall engineering. No submittals to Authorities Having Jurisdiction (AHJ) may be made by Contractor until reviewed and approved by the Architect/Engineer and found to generally conform with design documents.

01 40 Quality Requirements

REFERENCED STANDARDS

Refer to Contract Documents for list of industry organizations and referenced standards with contact and website information. All referenced standards, data, and guidelines will be made available to the Contractor upon request. Unless specifically noted, the most current version of each standard, guideline, or reference applies.

TESTING AND LABORATORY SERVICES

Contractor to retain an independent testing lab to perform required tests and inspections, and pay for cost of services. Contractor to furnish samples for such test and deliver to the testing agency, and collect and distribute laboratory reports to the Architect, Engineer, and Owners Representative. Re-testing required due to Contractor's failure to comply with specified requirements will be paid for by the Contractor. Refer to geotechnical report, civil drawings and General Structural Notes for list of all conditions requiring testing.

CONTRACTOR QUALITY CONTROL:

All work is to be performed by mechanics skilled the work required. Conform to the methods, standards, and accepted practices of the trade or trades involved. Minimum standards of quality shall not apply unless no other indication of quality is made in specifications or drawings. Contractor will engage manufacturer's technical representatives or field support to review critical areas of scope including weatherproofing systems, windows, and exterior doors. If retained by the Owners, Contractor will coordinate with and respond to all reports generated by an independent guality control site observer. 01 70 **Closeout Requirements**

CLOSEOUT PROCEDURES:

Perform final cleaning of all areas of Work prior to requesting Substantial Completion. Fully remove all marks, stains, fingerprints, soil and dirt from all finished surfaces. Clean all furnishings, fixtures, and equipment of paint, construction dust and debris, marks, or other deleterious material. Remove all temporary protective coverings and clean surfaces to like-new condition. Clean all window glass and frames to be free of dirt, streaks, or other marks. Conditions that cannot be fully cleaned and restored to like-new condition may be subject to repair or replacement.

Contractor to maintain as-built record drawings for all systems, framing, utility layout, and hidden conditions, and for all minor changes in the work due to field conditions on final record drawings to be provided by the Architect. Include all changes as per RFI's, sketches, bulletins, and field directives and provide dimensions to within one inch (1") of actual field-verified condition.

Contractor to deliver final as-built drawings, project manual, complete set of all construction A. PACKAGED PRODUCTS: ASTM C387. meeting minutes, all RFI's, submittals, and all other documents generated for administering the B. PORTLAND CEMENT: ASTM C150, mod. Type II; It. gray; single source/type thru duration Work. All documents to be reviewed by the Architect and revised as required prior to delivering of project; American. to the Owner. Produce comprehensive packages for each parcel such that common C. NORMAL WT AGG.: ASTM C33, coarse agg. per Table 2, size 57; 1" max. for foundations, products/data/warranties/operations and maintenance material are included for each individual 3/4" all others. Owner. All documentation is to be supplied in digital (PDF) format

WARRANTY REQUIREMENTS:

The Contractor will provide a one (1) year warranty for the full project inclusive of all labor, material, installation, and weathertightness. Where manufacturer's warranty for any part, assembly, or system exceeds this duration, the manufacturer's warranty period governs. All critical items (including loss of heating, cooling, pumps, fans, etc.) shall be serviced within a 24-hour response time. Temporary provisions for such systems will be provided by the Contractor at no additional cost to the Owner if repairs cannot be made within one subsequent 8-hour work day.

All non-critical items must be serviced to completion within a 5-business day period, unless notification in writing is provided to the Owner. Notify Owner of any delays due to shipping parts, or receiving replacement equipment, and provide a scheduled date of completion. Contractor to provide the name and contact information, including 24-hour phone number, of the designated warranty provider for all major systems, and include such information in the full project closeout documents.

| 03 | CONCRETE |
|-------|--------------------|
| 03 30 | Cast In Place Conc |

Contractor shall provide mockup samples of construction components (concrete, paving, metal work, masonry, fencing, etc.) separate from the permanent work for review and acceptance by the Architect prior to the installation of any work. Mockup samples represent the accepted level of quality and are to remain undisturbed & available for reference until the end of the project.

Notify Architect and Owner's Representative a minimum of 48 hours prior to commencement of concrete operations. Allow owner's representative to observe excavations and reinforcing prior to concrete placement.

Provide electrical and irrigation sleeves under paving to all planting areas.

Foundations: excavations shall be neat to lines of footings. All loose material shall be removed sawcut control joints. from surface to receive concrete. Place foundation concrete only on clean, firm, inspected bearing material. Footings shall bear on undisturbed native soil or compacted fill. Refer to CURING: Any material and/or method permitted by ACI 302 except that black plastic sheeting geotechnical report. Bear footings at depths indicated on plans but at depths no shallower may not be used under any circumstance. Curing compounds shall be compatible w/ & shall than the local frost depth below the grade within 5 feet of the foundation. not impair adhesion of subsequent finishes.

05 10

Verify heights, slopes, edge thicknesses, and turndowns before pouring footings and slabs

Concrete flat work on grade shall bear on undisturbed native or compacted soil as identified in geotechnical report. Refer to geotechnical report for site grading, subgrade soil preparation and fill and compaction requirements. Refer to General Structural Notes (GSN) for additional requirements - where conflicts in requirements may be found between GSN and requirements noted herein, the more stringent requirements shall prevail.

Concrete mix designs:

- A. Non-footing concrete shall be 3000 psi, unless otherwise noted on drawings. B. Footing concrete shall be as per General Structural Notes
- C. All concrete subject to freezing shall be provided with air-entrainment at rate recommended
- by geotechnical report, and/or Civil Engineer.

C. Provide concrete mix designs to Architect and Owner's Representative for review.

Concrete testing: submit prism test reports for concrete mix designs to Architect for review.

All concrete formwork shall be inspected by architect and approved prior to concrete pours. Curved formwork shall be continuous throughout the curve, without breaks or folds. Fasteners to comply w/ ASTM A153 & hot-dip galvanized for exterior use. Concrete flat work shall be installed with a constant slope between two spot elevations. A. LAG BOLTS: FS FF-B-56L, Square head type Changes in slope shall be accomplished in a gradual manner. All hardscape shall slope away B. STANDARD BOLTS: ASTM A307, 3/4" dia u.n.o., Grade A, regular hexagon head from buildings at minimum 1/8:12 (1%) slope [maximum 1:20 (5%) slope, maximum 1:50 (2%) cross slope] and meet ada requirements. D. STANDARD NUTS: ASTM A563

01

rete

Expansion joints in paving shall be fiber board with joint cap material. Provide a minimum 1/2-inch topping of 'sika flex' or equal expansion joint filler, color to match adjacent concrete and be approved by Owner's Representative; finish with 100% coverage of silica sand. Control joints in paving shall be saw cut (unless specifically noted otherwise), straight & true. Refer to the drawings for patterns - align w/ building and other site structures as indicated.

Concrete jointing for walls and flat work is schematic in nature and conveys the minimum design intent. Additional contraction, construction and expansion joints may be required. The contractor shall review all joints shown on plans and described in the specifications prior to construction. All requests for changes to jointing shall be submitted to the Architect for review a minimum of five (5) working days prior to construction. If additional joints are necessary to alleviate cracking or facilitate construction, they shall be provided at no additional cost. Additional joints not depicted on the drawings, but requested by the Owner, Engineer or Architect for aesthetic purposes shall be considered additional to the base contract. Except as noted otherwise, concrete work & materials to conform w/ reg's of ACI 301, 315. 318 & CRSI Manual of Standard Practice, following the structural design.

Reinforcement steel to comply w/ ASTM A706, "Standard Specification for Low-Alloy Steel Deformed & Plain Bars for Concrete Reinforcement".

CHAIRS. BOLSTERS, BAR SUPPORTS, AND SPACERS: Sized & shaped for clearance, strength & support of reinforcing during construction; Type to suit the various conditions encountered; Capable of supporting a 300-lb. concentrated load without measurable deformation of the reinforcement or supports or indentation of the supporting surface; Galvanized steel wire bar type for all work, except for work at grade where pre-cast concrete dobies may be used.

UNDERSLAB VAPOR BARRIER AND INSULATION: Provide underslab continuous vapor barrier 'Stego' 15 mil with accessory tapes and sealants for all terminations and penetrations. Provide underslab insulation equivalent to 'Dow' Styrofoam XPS Rigid Insulation, 3" Thick, R-15. Insulation to be installed continuously below all slabs at heated areas.

CONCRETE. ADMIXTURES AND FINISHING MATERIALS:

D. MIX WATER: Drinkable & free from deleterious materials affecting concrete integrity and/or

E. AIR ENTRAINING ADMIXTURES: ASTM C260. F. ADMIXTURES FOR MAINTAINING WORKABILITY AND SET CHARACTERISTICS: ASTM C494; Type required by placing procedures & wind speed ambient temperature. Calcium chloride, thiocyanurates or admixtures containing more than 0.05% chloride ions (the quantity found in ordinary drinking water) are not permitted.

CONCRETE MIXES, MIXING & DELIVERY OF CONCRETE: All concrete shall be ready-mixed in accordance w/ ASTM C94, "Standard Specification for Ready-Mixed Concrete." All concrete shall be of homogenous structure which when hardened, will have the required strength, appearance & durability. Mix, dispense, & use concrete admixtures in accordance w/ their manufacturer's recommendations & application instructions, & ACI 212. Concrete durability/water- cement ratio: ACI 301, Section 3.4. All concrete UNO, 2500 PSI minimum. Slabs on grade 3000 PSI. Follow local methods for extended travel and extreme temperature conditions - Contractor shall make provisions for rejected loads in compliance with all environmental requirements and in coordination with Master Developer.

REINFORCING: Place reinforcing in accordance w/ the structural design, in accordance w/ ACI B. PLYWOOD: PS-1; APA graded per dimensions & span direction indicated on the drawings; 318, CRSI 63 AND CRSI 65, properly supported & secured against displacement. Set reinforcement on chairs for proper clearance, except that concrete block supports may be used in earth trenches.

PLACING AND FINISHING CONCRETE: ACI 304, supplemented by ACI 302. Leave formed exposed concrete surfaces w/ smooth, unblemished, form finish. Finish concrete floor surfaces in accordance w/ ACI 304 & ACI 302.

A. INTERIOR: Standard gray, clear sealed. Sawcut control joints, w/ 1/4" edging at slab/turndown perimeter

B. EXTERIOR @ BUILDING: Standard gray with air entrainment and with 'Grace' 03 Topcast finish, or equivalent; provide sawcut control joints.

C. EXTERIOR @ SIDEWALKS: Standard gray with air entrainment and light broom finish, and

SEALER: Provide penetrating clear sealer on all exposed concrete slab surfaces by 'Cohills', or equivalent.

EPOXY ANCHORING ADHESIVES: 2-component high modulus, 100% solids epoxy gel adhesive, ASTM C-881 compliant.

| 05 | METALS |
|---------------------|---|
| SLAB ON GRADE | CONCRETE - STD GRAY, TROWELED FINISH - REF GSN. |
| SIDEWALKS, OFF SITE | MATCH EXISTING / ADJACENT. REF. CIVIL |
| SIDEWALKS, ON SITE | CONCRETE, STD GRAY, WITH LIGHT BROOM FINISH. |

Structural Metal Framing

Refer to General Structural Notes; unless noted otherwise, the following minimum requirements shall apply. All structural steel members (shapes, plates & bars) to comply w/ ASTM A36, Fy=36,000 psi. All reinforcing steel to be ASTM A615, Grade 60, detailed, fabricated & erected in accordance w/ ACI318, latest edition.

- C. PLAIN WASHERS: FS FF-W-92, Round, general assembly grade carbon steel
- E. MASONRY ANCHORING DEVICES: Expansion shield type; FS FF-S-325
- F. WOOD SCREWS: FS FF-S-111, flat head, carbon steel
- G. POWDER DRIVEN: 'Simpson' Type; .300 Headed fasteners w/ 1" metal washers, PDPWL-300 (3" long)

Welding materials to comply w/ AWS A5.0, E70 Series, low hydrogen type for shielded metal-arc welding

All steel to be shop-primed w/ modified-alkyd, rust-inhibitive primer.

Fabricate in accordance w/ AISC Specification for the Design, Fabrication & Erection of Structural Steel for Buildings. Weld in conformance w/ AWS D1.1. Prepare all surfaces in accordance w/ Steel SSPC Painting Manual, Volume 1, "Good Painting Practice" & Volume 2, "Systems Specifications", System SP-3, followed by a uniform, 2.5-dry mil thick coating of brush or spray-applied primer in accordance w/ mfr's recommendations & application instructions.

Erect per AISC specification. Install high strength bolts as bearing type connections w/ threads included in shear plane (Type N connections) using modified turn-of-the-nut method, load indicator washers, or torque control bolt method, at contractor's option - refer to GSN for additional requirements.

Fabricate all steel exposed to view in accordance with AESS standards. Special care shall be taken with all detailing, fabrication, and installation for exposed steel members, which shall follow AISC requirements for AESS. Welds shall be continuous, of a uniform size and profile, and contoured, blended, and ground smooth; connections shall be provided with minimal tolerances equal to half the normal tolerance as specified in the Code of Standard Practice Section 10; field welding aids shall be removed; uniform gaps of 1/8" at coping and blocking, and joint gaps. Clean all surfaces to be painted and finished; remove loose rust, loose mill scale, and spatter, slag, or flux deposits. Prepare in accordance with SSPC-SP 6 (commercial blast cleaning) for exterior: polyurethane finish coat with an epoxy intermediate coat and zinc rich primer; interior: epoxy coat with an epoxy or zinc rich primer. Prior to all steel fabrication, provide sample of all anticipated exposed-to-view joints, welds, and finishes for benchmark approval.

WOOD, PLASTICS, & COMPOSITES 06 06 05 Common Work for Wood

Provide wood blocking/backing within framed walls at all equipment and fixture locations capable of supporting the weight of the affixed item(s). Use no less than 1/2 inch plywood or 2x6 lumber as applicable for each condition.

Provide wood grounds, sleepers, blocking, and nailers as indicated, or where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved. Recess bolts and fasteners flush with surfaces unless noted otherwise. Provide fire-retardant treated wood where required; provide as wood-preservative treated lumber where installed in contact with concrete or installed outside of building envelope, and provide flexible flashing membrane were preservative treated wood is in contact with metal. Remove temporary grounds when no longer required.

| 06 10 | Rough Carpentry |
|---------------------------------|-------------------------------------|
| Provide all materials, labor, e | equipment & services necessary to f |

A. Structural & non-structural wall & roof framing B. Blocking for roofing system, related metal flashings & roof mounted equipment

C. Insulation stops D. Concealed blocking (behind finished walls) for support of toilet & bath accessories, door hardware, wall supported fixtures, handrails, equipment, & cabinetry.

E. Straight bolts, stock rough hardware & framing accessories for carpentry work F. All other items required for a complete framing support system

G. Sound deadening board.

MATERIALS:

A. LUMBER: PS-20; WWPA Certified or WCLB Grade stamped, D.Fir/Larch No. 2, S-Dry (19%). Wall studs to be D.Fir/Larch stud grade or better. Pressure preservative treated w/ a National Evaluation Services report number will be required of all materials in contact w/ concrete & masonry surfaces & all roof carpentry items.

Plywood w/ any portion exposed to the exterior shall have an exterior glue line (type EXT). NAILS: Size & type to suit application; non-staining, non-corrosive at moist, high-humidity Install w/ face grain perpendicular to supports unless specifically shown otherwise & w/ all areas. Nails used in finish carpentry work will be finish type, nail set & filled. Screws shall be panel edges supported or blocked. Do not substitute OSB or particle board for plywood. flat head, polished type, set. C. NAILS, SPIKES, & STAPLES: ASTM A153 hot-dip galvanized for use at building exterior, high humidity locations & at treated wood, plain finish elsewhere; FS FF-N-105; in general, use BOLTS, NUTS, WASHERS, LAGS, PINS & SCREWS: Size & type to suit application; mill finish 8-d or larger nails for 1" thick lumber & for toe-nailing 2" thick lumber; use 16-d or larger nails where concealed, polished, flat head at semi-concealed & where exposed to view. for 2" thick lumber.

D. WOOD CONNECTORS: All lumber connectors specified as "Simpson" type to be manufactured by "Simpson Strong-Tie Company, Inc." E. BOLTS, NUTS, WASHERS, LAGS, SCREWS, PINS, FASTENERS: Refer to Structural Steel. F. FRAMING ANCHORS: ICBO recognized; type, size & profile to suit application; galvanized finish; Simpson Strong Tie Connectors; Simpson Strong Tie Company, Inc.

INSTALLATION:

Erect all members square, plumb, level, free of distortion or defects, in true alignment w/ one another & w/ adjacent work, securely anchored to substrate; maintain dimensional tolerances & alignment w/ adjacent work. Finish surfaces shall provide a uniform appearance & be free from visual imperfections when exposed to view. Provide suitable anchors & fasteners for securing items to in-place construction as required by recognized standard or code. Secure framing members to the building structure using fastening anchors of sufficient strength to provide required safety factor. Comply w/ minimum requirements for nailing as scheduled in the Building Code, uno. Allow 1/16" space at panel end joints, 1/8" at panel edge joints. Where additional information is required, refer to the American Wood Council Publication WCD #1, Details for Conventional Wood Frame Construction. Publication is available at no cost at http://www.awc.org/pdf/WCD1-300.pdf. Install sound deadening board in accordance w/ manufacturer's recommendations & installation instructions. Cut, drill & fit as required for installation of miscellaneous items including internal wall blocking, nailers & grounds for attachment of finish materials, & roof carpentry such as insulation stops & cants. Allowable installation tolerances: Maximum deviation from true alignment, 1/2". Apply the most stringent of conflicting requirements.

| WOOD NAILING SCHEDULE: Refer to General Structural Notes | | |
|--|--|--|
| 06 16 | Sheathing | |
| WOOD STRUCTURAL PANEL SHEATHING | APA-RATED PLYWOOD SH Provide exterior rated sheat and where potentially expos with concrete. | |
| FIBERGLASS-MAT FACED GYPSUM BOARD | 'USG' <i>SECUROCK GLASS-M</i> (REGULAR, OR FIRECODE) STRUCTURAL. INSTALL AS C1280, USING TYPE W SCF FOLLOW ALL MFR INSTALL | |
| FIRE-RETARDANT TREATED PLYWOOD | INTERIOR: 'HOOVER' <i>PYRO</i> - D-3201; INSTALL AS PER I EXTERIOR: 'HOOVER' <i>EXTER</i> E-84, D-2898; REFER TO M ADJUSTMENTS TO SPAN F | |
| 06 20 | Finish Carpentry | |

furnish & install:

HEATHING - REF. STRUCT. athing for all exterior conditions bsed to moisture, or in contact

MAT EXTENDED EXPOSURE X, AS REQ'D), OR AS PER AS PER GA-253 & ASTM CREWS AS PER ASTM C1002. LATION RECOMMENDATIONS. *D-GUARD* - MEETS ASTM E-84, ICC-ESR-1791. ERIOR FIRE-X - MEETS ASTM

06 20 13

MFR STRENGTH TABLES FOR RATING AND LOADING.

The work includes all materials, labor, equipment & services necessary to furnish & install site fabricated finish carpentry, shop-fabricated millwork, doors, related items, hardware, attachment accessories, as well as any wood furring, blocking, shims, &/or hanging strips for installing woodwork items (unless concealed within other construction before woodwork installation).

SAMPLES FOR VERIFICATION: Veneer flitches and hardwood lumber to be provided prior to manufacturing panel products. Veneer-faced panel products with, or for, transparent finish, 8" x 10". Include at least one face-veneer seam & finish as specified.

| KITCHEN CABINETRY | AWI CUSTOM GRADE MODULAR BASE CABINETS w/ LOCALLY FABRICATED DOOR & DRAWER FRONTS, AND MATCHING END PANELS & TOE KICKS. SPECIES: WHITE OAK, QUARTER SAWN w/ ROTATED GRAIN AS PER ARCHITECT'S REFERENCE SAMPLE. |
|---|---|
| | ACCEPTABLE ALTERNATE DOOR/DRAWER FRONT MANUFACTURERS: 'REFORM' <i>BIG</i> SERIES w/ CUSTOM HANDLES (NOT BY 'REFORM') IN WHITE OAK VENEER. |
| COUNTERS | 'CAESARSTONE' 3/4" THK. QUARTZ COUNTERTOPS - SQUARE EDGE DETAIL AND EASED EDGES. COLOR: #4003 SLEEK CONCRETE. FINISH: HONED. |
| BATHROOMS | TO MATCH KITCHEN CABINETRY |
| BASE BOARD | PAINT GRADE HARDWOOD BASE (CLEAR GRADE, NO KNOTS PERMITTED), PIGMENTED LACQUER PAINTED FINISH TO MATCH WALL FINISH ABOVE - SURFACE MOUNT o/ WALL. |
| DOOR CASING | PAINT GRADE HARDWOOD IN SQUARE EDGE PROFILES AND DIMENSIONS AS INDICATED w/ LIGHTLY EASED EDGES/CORNERS. |
| GUARDRAIL WOOD PANELING | 'ROSEBURG' <i>SKYPLY</i> WOOD VENEER HARDWOOD PLYWOOD WALL PANELING ON COMBINATION FIBER CORE (CFC), WHITE OAK, QUARTER SAWN, SLIP MATCHED. FINISH: SHOP-APPLIED UV-CURED CLEAR TOPCOAT EDGEBANDING: 1/8" THICK x FINISHED WIDTH OF PANEL. FASTENERS: AIR/POWER FINISH (BRAD) NAILER |
| INTERIOR WOOD WALL PANELING | PROVIDE PANELING TO MATCH KITCHEN CABINETRY; PROVIDE HARDWOOD EDGE BANDING AT EXPOSED ENDS OF FLOORING TO MATCH FACE VENEER. |
| of Work specified in other Section supported & installed as indicated | aming, blocking, furring, reinforcements, & other related units s to ensure that interior architectural woodwork can be |

MATERIALS AND COMPONENTS: Grade all lumber materials in conformance w/ AWI-100, & all panel products in conformance w/ AWI-200; for the specified grade.

MEDIUM DENSITY FIBERBOARD: Medite II as manufactured by Roseburg, Dillard, OR, 800-245-1115 www.roseburg.com. Provide Medex in lieu of Medite II at all wet areas or within 2 feet of any sink or source of water.

ADHESIVE: Type recommended by fabricator to suit application.

HARDWARE: Provide full extension drawer glides and European-style self-closing hinges all with soft-close feature as manufactured by Blum with 'Bluemotion', or equivalent. Provide handles as per 'Hafele' stainless steel cabinet knob in matt finish.

CABINET DOOR BUMPERS: 1/4-inch dia., polyurethane, clear, self-adhering. 'Hafele' 356.25.400, or equal. FABRICATION:

Shop-fabricate, finish & fit all millwork in accordance w/ AWI Quality Standards for the specified grade.

A. MILLWORK PIGMENTED LACQUER: Pigmented lacquer o/ MDF or hardwood. Fabricate architectural woodwork in conformance with Premium Grade Standards in accordance with applicable standard.

CLEAR FINISH: Transparent stain and finish 'Ciranova' Hardwaxoil Magic finish. COUNTERTOPS: Fabricated countertops, with back- and side- splashes where shown, &

scribe for fitting to wall. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

Apply in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with blind attachment. Slightly bevel arrises. Locate counter butt joints minimum 2 feet from sink cut-outs.

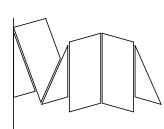
Provide cutouts for appliances, outlet boxes, fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal all surfaces including cut edges.

INSTALLATION: Install in accordance w/ AWI Quality Standards, Section 1700 - Installation of Woodwork, Custom Grade. In the absence of controlling standards, work will be installed in accordance w/ manufacturer's instructions. Set the work accurately in location, alignment & elevation, plumb, level, straight, square, true to line & free of distortion or defects & securely anchored; maintain dimensional tolerances measured from established lines & levels. Finish surfaces shall provide a uniform appearance & be free from visual imperfections when exposed to view. Allowable tolerances: Maximum permissible deviation from true alignment, 1/8-inch.

Exterior Finish Carpentry

The work includes all materials, labor, equipment & services necessary to furnish & install exterior wood siding as shown on the drawings and specified.

SUBMITTALS: Product data, verification samples, manufacturer's certificates and maintenance instructions that include recommendations for periodic treatment of sealer.



STUDIO MA 130 N Central Avenue No.300 Phoenix. Arizona 85004 آ 602 251 3800 آ

sma project no. 16-101

sma project name POWDERCAT

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STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 8525⁻ t (480) 946-8171

MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





Permit set phase / rev 2017.06.01

| MATERIALS: WOOD SIDING: | SOFFITS AND WEATHER-PROTECTED WAL |
|---|--------------------------------------|
| Manufacturer: 'Kebony Norge AS' | LOCATIONS |
| Supplier:Pine River Group, 812 S. Riverside Dr., St. Clair, MI 48079, 810-329-4789. Contact: Joanna Olmstead. | LUCATIONS |
| Siding: Terrace Board <i>Smooth</i> # K2102SYP 22mm x 142mm (\pm 7/8" x 5 9/16"). <u>Note</u> : provide wider widths as required to avoid awkwardly sized (e.g less than 3" in width) cut pieces @ corners, intersections, tapers, etc. | |
| Profile: Grooved, typ at building cladding; Ungrooved where front & back face are exposed. | |
| Trim / Fence Boards: Smooth Rectangular Cladding 21mm x 148mm | |
| Species: Clear Southern Yellow Pine | |
| Lengths: Lengths as required - ref. drawings | |
| Finish: Clear sealed | |
| Underlayment: see section 07 25 | |
| Flame Spread: 65 Smoke Developed: 300 / ASTM E84 "Class B" / (QAI report no. RJ3692-1, dated Jan. 7, 2015) | |
| FASTENERS: For wood cladding: stainless steel trim head screws. For furring strips: stainless | 07 25 |
| steel countersunk wood screws or sms as required, or self-drilling/self-tapping screws at stl | |
| posts. | SYSTEM DESCRIPTION: |

SEALER: Deep penetrating waterproof sealer with transparent oxides for UV protection; mildew & algae resistant. Basis of design is 'Armstrong-Clark' Transparent Wood Stain, Natural Tone. INSTALLATION:

Do not begin installation until substrates have been properly prepared, and weather barrier system has been installed. If substrate preparation and weather barrier system installation is the responsibility of another installer, notify Architect of unsatisfactory conditions before proceeding.

Install sealed wood cladding as an insulated, ventilated rain-screen system by attaching over continuous pressure-treated 2x wood furring strips. Paint all visible furring strips flat black prior to installing cladding. Install boards with the pith side toward the building (hidden from view). At terrace walls, attach furring to terrace wall posts with self-drilling, self-tapping sstl screws. Wood furring strips are to be installed horizontally between stl posts. Provide EPDM shims between post and furring strips as required to maintain a straight and plumb installation. At foundation walls, attach furring o/ concrete w/ isolation material (Grade D building paper, or equivalent) using 'Tap-con' fasteners or equivalent. Secure siding to furring strips in pre-drilled holes, (2) fasteners per board, per support - evenly and consistently space fasteners. Fasteners shall be of sufficient length to penetrate furring strips not less than 1-1/4". Maintain $\pm 1/2$ " clear airspace between adjacent boards for ventilation purposes. Maintain 1/4" clear airspace between ends. Ends exposed due to field cuts shall be sealed.

Tolerances: Surfaces: 1/8" in 10'-0" in all directions. Lippage: 1/8" max Maximum variation of joint width: 1/16".

Clean using mild detergents or special deck cleaners. Use fresh water and a brush; do not use a pressure washer, which will damage the surface.

Protect installed products until completion of Project. Touch-up, repair or replace damaged products before Substantial Completion. Provide extra material for repairs at a rate of not less than 5% of total installed material per unit to be turned over to Owner upon completion.

| 07 | THERMAL AND MOISTURE |
|--|--|
| | PROTECTION |
| 07 13 | Sheet Waterproofing |
| BELOW GRADE WATERPROOFING | 'WR MEADOWS' <i>MEL-ROL LM</i> w/ 10MIL <i>PERMINATOR</i> AND <i>MEL-DRAIN</i> . EXTEND TO TOP OF FOOTING. INSTALL WITH MFR RECOMMENDED SEALANTS AND ACCESSORIES FOR A COMPLETE AND WATERTIGHT INSTALLATION. PROVIDE CONTINUOUS PERFORATED FOUNDATION DRAIN PIPE WRAPPED IN GEOTEXTILE FILTER FABRIC (see Section 22 - Plumbing); 3/4" CLEAN STONE OR EQUIVALENT GRAVEL BED - REF. CIVIL FOR PIPE TERMINATION. |
| 07 20 | Insulation |
| THERMAL INSULATION | 'JOHNS MANVILLE' <i>FORMALDEHYDE FREE KRAFT FACED</i> <i>FIBERGLASS BATT INSULATION</i> . FLAME SPREAD < 25; SMOKE DEVELOPED < 50. INSULATION SHALL COMPLETELY FILL STUD CAVITY. PROVIDE MIN. R-38 (13" THK) AT ROOF/CEILING & EXPOSED FLOOR/ CEILINGS; R-21 (5.5" THK) AT EXTERIOR WALLS. |
| ACOUSTIC INSULATION | 'JOHNS MANVILLE' <i>UNFACED FORMALDEHYDE FREE</i> <i>FIBERGLASS BATT INSULATION</i> . FLAME SPREAD < 25; SMOKE DEVELOPED <50. FILL STUD (3.5" & 5.5") AND FLOOR CAVITIES (13") COMPLETELY. |
| MINERAL WOOL INSULATION | 'OWENS CORNING' <i>THERMAFIBER RAINBARRIER HD</i> MINERAL WOOL; THICKNESS AS PER WALL TYPE (1.5" MIN. (R-6.5), 3" MAX. (R-12.9)). |
| EXPANDING FOAM INSULATION | 'DOW' <i>GREAT STUFF Window & Door Insulating Foam</i> <i>Sealant</i> ; APPLY AT ALL WINDOW/DOOR/FRAMING GAPS AS PER MANUFACTURER REQ'S. |
| RIGID INSULATION - ABOVE ROOF | 'DOW' <i>STYROFOAM XPS RIGID INSULATION</i> , 2-1/2" THICK, (R-12.5). |
| RIGID INSULATION - BELOW GRADE 0/ EXPOSED CONCRETE FOUNDATION WALLS | 'T-CLEAR' <i>WALLGUARD</i> 3" THK (R-15) CONCRETE PANEL-FACED INSULATED PERIMETER WALL PANEL. |
| RIGID INSULATION - BELOW GRADE - CONCEALED FROM VIEW | 'DOW' <i>STYROFOAM XPS RIGID INSULATION</i> , 3" THICK, R-15. |
| SPRAY-APPLIED POLYURETHANE FOAM INSULATION TO FILL CAVITY, OR DEPTH AS INDICATED | 'JOHNS-MANVILLE' <i>CORBOND III</i> , THK. AS SPECIFIED (R-6.25 PER INCH). |
| 07 24 | DEFS |

REINFORCING, AND TERMINATIONS AS REQUIRED. BASE COAT: Manufacturer's trowel-applied water resistant base and bond coat; provide fiberglass tape at all joints in substrates, and at changes in plane, and finish base coat to an even, smooth finish. TOP COAT: Manufacturer's top coat finish with integral color to match interior ceilings FINISH: Manufacturer's smooth texture 'Limestone'. or equivalent smooth trowel finish, with no perceptible aggregate.

| | Install gypsum sheathing as pe compliant with ASTM D1784 c |
|-------|---|
| 07 25 | Weather Barriers |

METAL WALL PANELS 'CORTEN' STEEL PANELS 4-WAY FLAT SEAMED: 'WESTERN STATES' A606 STEEL. FABRICATE TO DIMENSIONS AND CONFIGURATIONS AS SHOWN IN DRAWINGS. WALL PANELS TO BE 4-WAY FLAT SEAM PANEL w/ CONCEALED SSTL CLIPS & FASTENERS. PROVIDE w/ FLASHINGS AND TRIMS FOR A COMPLETE AND WEATHERTIGHT INSTALLATION - REF 07 25 FOR WEATHER BARRIER REQ'S; REF 07 20 FOR INSULATION Connections of the walls to the roof membrane REQ'S - PROVIDE MINERAL WOOL AS SCHEDULED. Connections of the walls to the foundations FIRECODE, AS REQ'D), OR AS PER STRUCT. Seismic and expansion joints STANDING SEAM METAL ROOF STANDING SEAM METAL ROOFING w/ ONE-PIECE Openings and penetrations of window and door frames, store front, curtain wall, CONCEALED SSTL CLIPS, FASTENERS, AND mechanical louvers CONTINUOUSLY SEALED SEAMS: 'WESTERN STATES' Piping, conduit, duct and similar penetrations SS675 STANDING SEAM 16"W A606 STEEL PANEL w/ Masonry ties, screws, bolts and similar penetrations ALL ACCESSORIES & MATCHING FASCIA, RIDGE, Any and all other air leakage pathways in the building envelope FLASHINGS, AND TRIMS FOR A COMPLETE AND WEATHERTIGHT INSTALLATION w/ 20-YEAR NO DOLLAR LIMIT WARRANTY. BREATHABLE UNDERLAYMENT 'BONAR' ENKAMAT ASV 7010 SELF-ADHERING POLYMER 'GRACE' VYCOR ULTRA AT ROOF ONLY (REFER TO MODIFIED BITUMINOUS SHEET SECTION 07 25 FOR WALL PANEL CONDITIONS) SNOW GUARDS 'ALPINE' ASG4025, POWDER COATED (COLOR TO BE

SYSTEM DESCRIPTION: Supply labor, materials and equipment for a fully adhered water-resistive vapor permeable air barrier membrane system behind all exterior wall cladding. Complete Work as shown on the Drawings and specified herein to bridge gaps and seal the water-resistive vapor permeable air barrier membrane against air leakage and water intrusion including, without limitation, the following locations: Install primary water-resistive vapor permeable air barrier, flashing, lap seam tapes, sill pan and ventilation strip accessories. MATERIALS: Note - for weather barrier at metal roofing, refer to section 07 42. MANUFACTURER: VaproShield LLC., Gig Harbor, WA, 866-731-7663, info@VaproShield.com, www.vaproshield.com. WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MATERIALS: Primary self-adhered air barrier sheet membrane shall be RevealShield SA Self-Adhered Water-Resistive Vapor

SELECTED BY ARCHITECT) Permeable Air Barrier Sheet, Black in color.

WATER-RESISTIVE VAPOR PERMEABLE TRANSITION AND FLASHING MEMBRANE: Self-adhered air barrier transition and flashing membrane shall be RevealFlashing SA FLASHING FOR ROUGH OPENINGS: Window and door flashing shall be VaproLiqui-Flash, a liquid-applied vapor permeable air barrier flashing material.

SEALANT (for penetrations): Dow 758 or VaproLiqui-Flash SMALL PENETRATION FLASHING: 'Quickflash Products, Las Vegas, NV, (702) 614-6100, QFinfo@quickflashproducts.com, www.quickflashproducts.com. Install prior to installation of weather resistant barrier.

EXTERIOR WOOD FURRING: At all exposed furring on horizontal surfaces provide 'Grace' *Vycor Deck Protector* on all exposed sides/ends.

INSTALLATION:

GENERAL: Verify that surfaces and conditions are ready. Notify Architect of any discrepancies. All surfaces must be dry, sound, clean and free of oil, grease, dirt, excess mortar or other contaminants. Fill voids and gaps in substrate greater than 1/4 inch in width to provide an even surface. Mechanical fasteners used to secure sheathing boards shall be set flush with sheathing and fastened into solid backing.

NOTE - GC to engage weather barrier manufacturer's technical representative to review and certify weather barrier installation prior to commencing cladding installation. Provide report(s) from manufacturer concerning all areas observed, deficiencies noted, and actions taken.

COORDINATION: Self-adhered vapor permeable air barrier sheets may be installed vertically or horizontally over the outside face of exterior sheathing board or substrate. Complete detail work around corners, wall openings, building transitions and penetrations prior to field applications. Install self-adhered vapor permeable air barrier sheet over the outside face of exterior sheathing board or substrate, measure and pre-cut into manageable sized sheets to suit the application conditions. Install self-adhered vapor permeable air barrier sheet complete and continuous to substrate in a sequential overlapping weatherboard method starting at bottom or base of wall and working up. Stagger all end lap seams. Roll installed membrane with roller to ensure positive contact and adhesion with substrate. No wrinkles, bubbles, or other surface defect to remain in weather barrier. Provide primer o/ substrate as required or recommended by manufacturer's representative to ensure proper adhesion.

BUILDING TRANSITIONS: Tie-in to structural beams, columns, floor slabs and intermittent floors, parapet curbs, foundation walls, roofing systems and at the interface of dissimilar materials with self-adhering air barrier transition and flashing membrane. Align and position self-adhered air barrier transition and flashing membrane, remove protective film and press firmly into place. Provide minimum 3 inch lap onto substrates. Ensure minimum 3 inch overlap at side and end laps of membrane. Roll membrane and lap seams with roller to ensure positive contact and adhesion. At inside and outside corners provide minimum 12 inch off-set of vertical seams.

VERTICAL APPLICATIONS: For vertical applications, align sheets with an 'inside' or 'outside' SNOWMELT HEATING SYSTEM: 'THERMA-HEXX' THERMAPAVER HYDRONIC SNOWMELT O/ corner to avoid wrinkles and mis-alignment of subsequent applications. Measure and pre-cut 1.5" EPS RIGID FOAM INSULATION; NESTED BETWEEN U/S PAVERS AND TOP OF into manageable sized self-adhered sheets to suit the application conditions. Hang PEDESTALS - REF MECHANICAL FOR ADDITIONAL INFORMATION. self-adhered sheets over wall and extend down to lowest point of wall. Allow for excess material at bottom of wall to accommodate tie-ins and connections to adjacent surfaces. ROOFING ASSEMBLY: 'HYDROTECH' ULTIMATE ASSEMBLY w/ MIN. 6" THK (R-30) TAPERED Align and position self-adhered membrane, remove release film and press firmly into place. INSULATION - 1/4" PER FOOT SLOPE 'DOW' PLAZAMATE XPS INSULATION 2.2PCF DENSITY, Provide minimum 3 inch overlap at side and end laps of membrane. Roll membrane and lap MIN. 100 PSI COMPRESSIVE STRENGTH, w/ RAIN-CHANNELS ALL 4 BOTTOM EDGES. seams with roller to ensure contact and adhesion. Continue to remove release film and apply pressure to ensure positive contact onto wall substrate. Install subsequent sheets of self-adhered vapor permeable air barrier sheets in overlapping weatherboard format. Ensure sheets lay smooth and flat to surfaces. Roll membrane and lap seams with roller to ensure contact and adhesion.

'STO' StoQuick Gold Soffit, DIRECT-APPLIED EXTERIOR FINISH SYSTEM o/ WEATHER RESISTANT BARRIER o/ 1/2" EXTERIOR RATED GYPSUM SHEATHING. PROVIDE w/ FLASHINGS, WEEP SCREEDS, SQUARE-CORNER

> per ASTM C1177, and joints cell classification 13244C.

HORIZONTAL APPLICATIONS: For horizontal applications, align sheets and begin installation of water-resistive weather barrier at bottom or lowest point of wall. To avoid wrinkles and mis-alignment of subsequent applications it is recommended to pre-mark or "snap" a level line to work from. Measure and pre-cut into manageable sized sheets to suit the application conditions. Allow for excess material at bottom of wall to accommodate tie-ins and connections to adjacent surfaces. Align and position self-adhered membrane, remove release film and press firmly into place. Provide minimum 3 inch overlap at all side and end laps of membrane. Roll membrane and lap seams with roller to ensure contact and adhesion. Continue to remove release film and apply pressure to ensure positive contact onto wall substrate. Install subsequent sheets of self-adhered vapor permeable air barrier sheets in overlapping weatherboard format. Ensure sheets lay smooth and flat to surfaces. Roll membrane and lap seams with roller to ensure contact and adhesion. 07 42

Metal Wall Panels and Roofing

INSTALLATION: Roof panels, flashing, and sheet metal fabrications to comply with design and installation standards of applicable details as per SMACNA and the NRCA. Refer to drawings for details extraordinary requirements may be identified due to extreme climate and/or performance conditions.

07 60

MATERIALS & COMPONENTS:

SHEET STOCK: Hot-rolled; ASTM A653 Grade B, structural quality; minimum 22-gage. Concealed flashings and cleats stainless steel; exposed flashings in finish to match metal wall panels, unless noted otherwise.

Flashing and Sheet Metal

FASTENERS: Concealed hook strip or clip type; of same material as flashing; of sufficient strength to perform their intended function; capable of supporting system & superimposed design loads & of allowing adjustment prior to being permanently fastened in place; type recommended by system manufacturer to suit location & application.

ANCHORAGE DEVICES: Cleats, type & gage same as sheets being anchored, unless noted otherwise; 2" wide, punched for 2" anchor spacing; anchors of type recommended by fabricator for installation conditions & loads.

SOLDER & FLUX: ASTM B32; type suitable for metal being soldered.

PLASTIC CEMENT: FS SS-C-I53, type I, asbestos free; compatible w/ roofing membrane.

FABRICATION:

Fabricate flashing in accordance w/ roofing manufacturer's recommendations, NRCA recommendations, & applicable SMACNA detail. Form each section square, true & accurate to dimensions, free from distortion (wave, warp or buckle) & other defects detracting from appearance or detrimental to performance. Hem exposed edges 1/2" on the underside. Unless shown otherwise in the drawings, form exposed flashing w/ a 45 degree projection, minimum 3/8" long as a drip edge. Form flashing at the end of a run in to a three-dimensional configuration to divert water to the outside of the system. Form all seams as soldered lap seams. Solder all joints & connections, except expansion joints.

INSTALLATION:

Perform the work in accordance w/ roofing manufacturer's recommendations & installation instructions, supplemented by NRCA Roofing & Waterproofing Manual, & SMACNA Architectural Sheet Metal Manual. Comply w/ manufacturer's product catalog & specifications. Erect plumb, level & in proper plane without bulges, warps, buckles, waves, fastening stresses, or distortion; allow for expansion & contraction. Cope or flange intersections to fit accurately & solder together to form rigid inside & outside corners. Burn lead joints. Form, fabricate & install all work to perform satisfactorily, to withstand thermal shock & vibration, all conditions of weather, & to prevent penetration of dust, water & weather.

| 07 76 | Roof Pavers |
|----------------|--|
| PEDESTAL SYS | TEM w/ WOOD TILES: 'BISON' VERSADJUST w/STANDARD 2'x2' x 1.75" THK |
| IPE WOOD TILES | S - SEMI CUSTOM (MODIFY FOR THERMAL TRANSFER PER SNOWMELT |
| SYSTEM), SMO | OTH SURFACE, RUNNING BOND PATTERN; PROVIDE ALL REQUIRED MFR |
| ACCESSORIES, | INCLUDING FLOATING INSULATION BASE, SLOPE ADJUSTMENT PLATE, |
| ETC. FOR A COM | IPLETE INSTALLATION. |

| 08 | DOORS AND WINDOWS | |
|-------|-----------------------|--|
| 08 14 | Wood Doors and Frames | |

Refer to plans for door designations - refer to door schedule for Contractor to submit full door and hardware schedule for each u numbering, frame type and size(s), door type and size(s), and h prior to procurement and fabrication.

CUSTOM GARAGE DOORS:

Custom metal-clad exterior rated wood sectional garage door w accessories to enable flush condition with exterior wall finish with all components for a fully operational and weathertight inst construction consists of rigid foam insulation within stile and ra bottom edges), exterior grade plywood sheathing, and fixed trar panel. Metal cladding to be site-applied to match and align with remote keypad for exterior access, motorized operator, overhea safety photo-eye interlocks for emergency stop and reverse. Bas Doors', contact Lauri Wilson (715) 426-8932, lwilson@designe

EXTERIOR SOLID CORE WOOD DOORS:

Custom wood swing entry door with matching sidelite panel, tra supplied complete with all weatherstripping, trim, hardware, thre complete and weathertight installation. Exterior rated materials wood cladding - refer to drawings for additional detailed require 'Designer Doors', contact Lauri Wilson (715) 426-8932, lwilson

SOLID CORE INTERIOR DOORS: AWI Section 500 and 1300 for Particleboard cores, w/ binder containing no urea-formaldehyde rails bonded to core. Factory-finish (and pre-machine for hardy of design is Trustile model TM13000 w/ 1/4" kerf cut reveals ar Reserve - engineered panel w/ composite core and LVL stiles at joinery) for wood veneer doors & standard flush overlay with pa swing doors, with 'Single Rabbeted Jamb w/Kerf' 1.25"/0.75" th

POCKET DOOR FRAMES: Custom fabricated welded steel tube t wood nailers. Local fabrication, or 'Christner Woodworks' 5500 www.heavydutypocketdoorframes.com. FINISHES:

Refer to door schedule for finish designation at each door.

OPAQUE FINISH: Custom Grade, flush - satin lacquer painted fin White Oak, quarter-sawn with slip-matched veneers, and transp match project reference sample.

FABRICATION:

Fabricate doors in conformance with AWI Quality Standards and Factory-finish doors as selected. Fabrication tolerances as follo

Size: $+/- 1/16^{"}$ in any direction.

Squareness: Diagonal measurement difference, +/- 1/8" max. Factory Hardware: Hinge & lock cutouts, $+ 1/32^{"}$, -0"

Telegraphing: Defective when face of door varies more than 1/1 Warp: 1/4" maximum from door plane for 3'-6" x 7'-0" and small sections of larger doors; measured in relation to the plane of the

INSTALLATION:

Install doors plumb, square, and within specified tolerances, with uniform edge spacing, in conformance with manufacturer's reco instructions. Install hardware to provide free swinging or sliding latch securely without rattling. Coordinate installation of field installation trim molding. Installation tolerances as follows:

Jamb and Head clearance: 1/8"

Bottom clearance: 5/8" Diagonal distortion: $+1/16^{"}$, 0"

Aluminum Clad W

QUALITY ASSURANCE: Windows shall conform to the "Volunta Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors" ANSI/AAMA/NWWDA 101/I.S.2, unless specified products achie performance.

1. Fixed window rating: C-50

2. Casement window rating: C-70

TESTS:

08 50

Air infiltration per ASTM E 283 - when tested at 1.57 psf (25 mm follows:

1. Fixed Windows: 0.30 cfm/ft2 of frame or less.

2. Casement Windows: 0.50 cfm/ft2 of frame or less. Water infiltration per ASTM E 547 - No water penetration throug under static pressure of 7.5 psf (42 mph) after 4 cycles of 5 mil applied at a rate of 5 gallons per hour per square foot.

LOADING: Uniform load deflection test per ASTM E 330 proced pressure of 30 psf minimum (unless greater per ASCE-7 or app GSN); areas of greatest deflection not to exceed L/175. Uniform E 330 at static pressure of 1.5 times design wind pressure (min of any member not exceeding 0.2% of member span. Contracto drawings indicating attachment requirements, steel stiffeners, o required to withstand wind loading, and for a complete and func required components are specified/detailed, or not.

WARRANTY: Provide minimum ten (10) year watertight installat

MATERIALS AND COMPONENTS: 'Windsor' Pinnacle Contempo aluminum-clad wood window w/ solid wood core, and heavy vi jambs, and sill. All sash material to be kiln-dried, water-repellan accordance with WDMA I.S. 4-07'A. Dual-glazed insulated units tubes. Provide manufacturer's optional black fiberglass 'excellen charcoal aluminum frames. Install manufacturer's standard hard

SUBMITTALS: Obtain field measurements of framed openings drawings. Produce detailed shop drawings for this project's spe describe all required fasteners, clips, reinforcing/steel stiffeners, weatherstripping as req'd for a complete, weathertight, and warr commence fabrication without approved shop drawings and fie

| for door types and sizes. h unit type; indicate door d hardware for Architect review | INSTALLATION: Install plumb, square, and within industry tolerances, within the prepared opening for uniform edge spacing, in conformance with manufacturer's recommendations and installation instructions. Install hardware to provide free swinging that operate easily and latch securely without rattling. Coordinate installation of field installed glass. Install specified trim molding. | | |
|--|---|--|---|
| with track, hardware, and - ref details. Furnish complete nstallation. Sectional panel | Provide structural and non-structural sealants as manufactured by Pecora or Dow suitable for specific application. Color to be determined by Architect upon preparation of mockup. Provide all flashing components and conditions in materials and configurations as detailed. Provide field testing as specified. | | architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 |
| rail frame (rabbeted top and ransom panel to match door th adjacent wall cladding. Provide ead light, remote control(s), and Basis of design is 'Designer | WINDOWS | 'WINDSOR' <i>PINNACLE</i> . STYLE: <i>CONTEMPORARY STOP</i> . EXTERIOR COLOR: STANDARD COLOR TO BE SELECTED BY ARCHITECT. INTERIOR: <i>PAINT GRADE</i> , PAINTED TO MATCH WALLS IN LOW-SHEEN FINISH. | T 602 251 3800 sma project no. 16-101 |
| gnerdoors.com. | | GLAZING: <i>Loe 366</i> Insulated Glass (<i>Energy Star 2015</i> & <i>IECC</i> Compliant) - See Window Schedule For Additional Information. | sma project name POWDERCAT |
| transom, and hardwood jambs hreshold, etc. as required for a s and construction with custom irements. Basis of design is on@designerdoors.com. | | PROVIDE SCREENS AT CASEMENT WINDOWS; PROVIDE WITH MFR STANDARD HARDWARE - COLOR TO BE SELECTED BY ARCHITECT. | COPYRIGHT 2017 STUDIO MA This document is an instrument of service and shall remain the property of the Architect, who shall |
| for the specified grade, | WINDOW SYSTEM SWING DOORS | | retain all common law, statutory and other reserved rights, including |
| rde resin, 5 or 7 plies, stiles and rdware) - all six (6) sides. Basis and 1" stiles (Series: Trustile and rails, and cope & stick paint grade finish for standard thk. | | CONTEMPORARY. EXTERIOR COLOR: STANDARD COLOR TO BE SELECTED BY ARCHITECT. INTERIOR: PAINT GRADE, PAINTED TO MATCH WALLS IN LOW-SHEEN FINISH. GLAZING: LOE 366 INSULATED GLASS (ENERGY STAR 2015 & IECC COMPLIANT) - SEE WINDOW SCHEDULE FOR ADDITIONAL INFORMATION. | the copyright thereto. OWNER orr powdercat th development, IIc 11180 sunrise valley drive, ste 300 reston, va 20191 t (703) 289-2125 |
| e frames w/ LVL headers and 00-325 Series Heavy Duty frame; | | MFR STANDARD 5" STILES AND TOP RAIL w/ 1-3/4" SASH PANELS AND GLAV INSTALLATION CLIPS, STEEL STIFFENERS, AND MULLION COVERS AS REQ'D - REF DETAILS. | CIVIL talisman civil consultants 5217 south state st, ste 200 |
| finish. WOOD VENEER FINISH: sparent factory-applied finish to | WINDOW SYSTEM SLIDING DOORS | REF. SCHEDULE FOR ADDITIONAL INFORMATION. 'WINDSOR' <i>PINNACLE</i> SLIDING PATIO DOORS. STYLE: <i>CONTEMPORARY STOP</i> . EXTERIOR COLOR: STANDARD COLOR TO BE SELECTED BY ARCHITECT. INTERIOR: | murray, ut 84107 t (801) 743-1308 STRUCTURAL rudow + berry, inc. |
| and applicable label requirements. llows: | | <i>PAINT GRADE</i> , PAINTED TO MATCH WALLS IN LOW-SHEEN FINISH. GLAZING: <i>LoE 366</i> INSULATED GLASS (<i>ENERGY STAR 2015 & IECC</i> COMPLIANT) - SEE WINDOW SCHEDULE FOR ADDITIONAL INFORMATION. | 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171 MECH/PLBG/ELEC |
| ζ. | | MFR STANDARD 3"W LVL STILES AND 5" BOTTOM RAIL w/ 1-3/4" SASH PANELS, TANDEM ROLLERS w/ | peterson associates consulting engineers, inc. |
| I/100" naller doors or in similarly sized the door and not to the frame. | | ADJUSTABLE, BALL-BEARING WHEELS, STEEL STIFFENERS, AND MULLION COVERS TO COORDINATE WITH ADJACENT FIXED FRAMES AS REQ'D - REF DETAILS. | 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732 |
| within the prepared opening for ecommendations and installation | 08 70 | REF. SCHEDULE FOR ADDITIONAL INFORMATION. | LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 |
| ng doors that operate easily and installed glass. Install specified | standards conflict with other specif 1. Builders Hardware Manufacturing 2. ANSI-A156.xx- Various Performa 3. DHI /ANSI A115.IG – Installation | ance Standards for Finish Hardware | t (801) 583-1295 |
| Wood Windows tary Specifications for | TEMPLATES: Submit templates and | d "reviewed hardware schedule" to all door and frame to enable proper and accurate sizing and locations of | |
| " as published by chieve more stringent | | h hardware component and color/finish. | |
| mph) air leakage shall be as | scheduling hardware and coordinat | Architectural Hardware Consultant for purposes of ing with associated trades; review project for extent of te the Work. Notify Architect in writing if any conflict in s found. | Not S. C. I. I. I. I. |
| ugh window when tested minutes each, with water being | INSTALLATION AND FINAL ADJUSTMENT: Install all hardware in accordance with manufacturer's requirements and industry recommendations. Adjust all door closers for proper operation, verify levers are free from binding, ensure latch bolts/deadbolts engage strike, and ensure all hardware functions smoothly. | | |
| | Refer to Door Schedule for specific | hardware group requirements. | |
| edure A with design wind pplicable building code - see rm load structural test per ASTM | | Glazing uirements of GANA for all glass types to be provided. | |
| nin.) with permanent deformation ctor shall provide engineered , or additional reinforcing as | WINDOW GLAZING | , roller marks, or other visual defects. BY WINDOW MFR - REFER TO WINDOW SCHEDULE FOR DETAILED PERFORMANCE REQUIREMENTS. | |
| inctional installation, whether all | MIRRORS | 1/4" PLATE GLASS MIRRORS w/ POLISHED EDGES & BLIND ATTACHMENT. SIZE PER DRAWINGS. LOCAL FABRICATION. | |
| llation warranty. | SHOWER GLASS | SWING DOORS: FRAMELESS GLASS SHOWER ENCLOSURE: 'CRL' | |
| porary Stop series vinyl integral nailing fin at head, ant, preservative treated in nits w/ high-altitude breather | | <i>GENEVA #GEN074 w/ #BM6X6</i> (POLISHED CHROME) w/ 1/2" CLEAR TEMPERED GLASS 'OLDCASTLE' <i>LOW-IRON</i> w/ 'HYDROSHIELD'. PROVIDE WIPES AND | |
| lent visibility' insect screens in ardware - color to be selected. s prior to generating shop | | SEALS AS REQ'D FOR WATERTIGHT INSTALLATION. <u>SLIDING DOORS:</u> FRAMELESS BI-PARTING GLASS SHOWER DOOR: 'CRL' <i>HYDROSLIDE</i> SLIDING SHOWER DOOR SYSTEM | AO 21 SPECIFICATIONS |
| pecific conditions to fully ers, accessories, and varrantable installation. Do not | | (POLISHED CHROME) w/ 1/2" CLEAR TEMPERED GLASS 'OLDCASTLE' LOW-IRON w/ 'HYDROSHIELD'. PROVIDE WIPES AND SEALS AS REQ'D FOR WATERTIGHT INSTALLATION. | |
| field verified dimensions. | GLASS GUARDRAIL | WATERTIGHT INSTALLATION. PRE-ENGINEERED CANTILEVERED GLASS GUARDRAIL SYSTEM: 'CRL' #AFWC2 IN BRUSHED SSTL w/ 1/2" CLEAR TEMPERED GLASS PANELS 'OLDCASTLE' | scale |
| | | LOW-IRON w/ 'HYDROSHIELD'. INSTALLATION PER MFR REQUIREMENTS FOR SPACING AND GLASS FABRICATION - REF DETAILS FOR CUSTOM BRACKET | PERMIT SET phase / rev |
| | | | 2017 06 01 |

MOUNTS.

2017.06.01

09 09 20 GLASS PATCH FITTING x3 EQUALLY SPACED : 'CRL' Black Vienna 337 Series Adjustable Wall Mount Full Back Plate Hinge V1E337BL w/ 1/2" Sandblasted glass door. Provide 'Emtek' modern round knob 5059 in us19 finish; discard rosette and provide isolation gaskets for glass installation. FINISHES

Gypsum Board

Provide all materials, labor, equipment & services necessary to furnish & install gypsum board, related panel products & all accessories, screwed to wood wall and ceiling framing support system, finished & ready to receive paint. Unless otherwise noted, all gypsum board edges to be finished with applicable 'L', or 'LC' square-corner metal trim. All gypsum board installation to be completed in accordance with "GA214", latest edition.

GYPSUM BOARD, ACCESSORIES, AND RELATED PRODUCTS: 'Gypsum Association' Application and Finishing of Gypsum Board ("GA216"), latest edition.

| replication and rinoring of dype | |
|---------------------------------------|---|
| INTERIOR WALLS & CEILINGS, TYPICAL | GYPSUM WALLBOARD (GWB) w/ LEVEL 4 FINISH NON-TEXTURED ("SMOOTH WALL") 'USG' 5/8" THK., <i>SHEETROCK ULTRALIGHT PANELS FIRECODE 30</i> , TYPICAL UNLESS NOTED OTHERWISE. AT RATED WALLS, PROVIDE <i>SHEETROCK ULTRALIGHT FIRECODE</i> <i>X PANELS</i> . |
| | NOTE: AT BATHROOM WALLS WITH TILE, REPLACE GWB WITH 1/2" THK. CBU's - see Section 09 30. |
| DEMISING WALLS | 'USG' AREA SEPARATION WALL SYSTEM INCLUDING 1" GYPSUM LINER PANELS, SOUND BATTS, 2" H-STUDS, 2" C-RUNNERS, ALUMINUM BREAKAWAY CLIPS, AND OTHER COMPONENTS AS DETAILED IN THE DRAWINGS. MEET UL LISTING U336. AT UNIT SIDE OF DEMISING WALLS, PROVIDE 'NATIONAL GYPSUM' <i>GOLD BOND 5/8</i> " <i>SOUNDBREAK XP</i> FIRE AND STC RATED GYPSUM WALL BOARD. |
| MATERIALS & ACCESSORIES | ACCESSORIES: METAL, ASTM C1047 COMPLIANT. FASTEN w/ TYPE 'W' SCREWS AS PER MFR. ADHESIVES: ASTM C557. ELASTOMERIC JOINT SEALANTS: ASTM C920. JOINT REINF. TAPE & COMPOUND: ASTM C474, C475. STEEL SCREWS: ASTM C954, C1002. STD. SPEC. FOR GYPSUM BOARD: ASTM C1396. TESTING: ASTM C22, C472, C473. |
| ACCESSORIES (CORNER READS | EDGE TRIM AND CONTROL JOINTS: Galvanized metal with |

ACCESSORIES (CORNER BEADS, EDGE TRIM AND CONTROL JOINTS: Galvanized metal with flange; corner beads, square edge at all outside corners. See drawings/details for unique conditions.

MOLDING: Galvanized metal; type as required by conditions.

JOINT TAPE: Cross-fibered paper tape. TAPING AND TOPPING JOINT COMPOUND: ASTM C475; asbestos-free; vinyl based; for embedding tape and first, second and third fill coats.

WATER: Drinkable and free of deleterious quantities of impurities and/or contaminants. REVEALS: 'Fry Reglet' reveal moldings - refer to details.

INSTALLATION GYPSUM BOARD & PRODUCTS: GA-214, GA-216; ASTM C840.

Install gypsum board materials in accordance with ASTM C840, GA216, and manufacturer's recommendations and installation instructions, supplemented where necessary, by ANSI A97.I. Reinforce gypsum board at edges and joints with metal accessories, tape, fill with joint compound, and sand to produce a surface that is flush and ready for final decoration. Prime surfaces in accordance with manufacturer's recommendations and installation instructions. Taped joints, fasteners, and flanges of metal reinforcement shall not be visible in the finished work. Seal around all exterior door-window assemblies with acoustical sealant.

SURFACE FLATNESS: Maximum deviation from a flat plane not to exceed 1/8" in 10 feet. LEVEL #4 Finish, non-textured, per 'Gypsum Association' Recommended Levels of Gypsum Board Finish ("GA214"); coat with drywall primer prior to the application of final finishes.

| 09 30 | Til |
|-------|-----|
| | |

[NOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE MATERIAL SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

'CERAMICHE CÆSAR' MORE SERIES THROUGH-BODY PORCELAIN TILE w/ THIN-SET MORTAR ADHESIVE, REINFORCING, ANTI-FRACTURE MEMBRANE/CRACK ISOLATION. MORTAR BED, AND ACCESSORIES. REFER TO DETAILS FOR INSTALLATION METHOD AT EACH APPLICATION.

COMPONENTS: Basis of design 'MAPEI', u.n.o.: WATERPROOFING & CRACK-ISOLATION MEMBRANE: 'Mapelastic AquaDefense' w/reinforcing fabric accessories, MAPEI

REINFORCING MESH (Mortar bed reinf.): 2"x2"x16/16 GA. galv. wire mesh THIN SETTING BED/BOND COAT: Latex-portland cement mortar w/ latex additive in compliance w/ ANSI A118.4; 'Kerabond w/ Keralastic Polymer Modifier'; MAPEI. MORTAR SETTING BED: Full cement mortar consisting of fully cured mortar bed using standard cementitious materials w/ latex additive; ANSI A108.1; 'Keralastic Polymer Modifier'; MAPEI.

GROUT: Latex-portland cement w/ integral sealer, 'Ultracare Plus SB'; ANSI A118.6; MAPEI; color to be selected by Architect.

WATER: clean, fresh & free of deleterious substances.

ANTI-FRACTURE MEMBRANE (SHOWERS): 'Noble Company' NobleSeal TS w/ sealant SEALER: 'Keraseal'; MAPEI.

BACKERBOARD: 'Durock' Cement Board; USG

TRANSITION STRIP: 'Schluter' Scheine series, satin stainless steel, in dimension required. Provide between all transitions to dissimilar floor material at centerline of doors, or aligned to building components as indicated on floor finish plans.

SHOWER PAN LINER: 'Noble Company' Chloraloy CPE shower pan liner w/ corresponding compatible sealant.

INSTALLATION:

Install using first class workmanship, following mfr's recommendations & instructions, supplemented by the 'TCNA Handbook for Ceramic Tile Installation', with anti-fracture membrane & grouting as per ANSI A108.10 & expansion joints per TCNA EJ171. Extend tile work into recesses & under equipment & fixtures to form a complete covering without interruptions, except as otherwise shown. Terminate work neatly at obstructions, edges & corners without disruption of pattern or joint alignments. Align all joints in both directions w/ joint width as recommended by the mfr for the specific tile, unless noted otherwise. Ensure tile joints are straight, level & plumb, uniform in width, subject to normal tolerances due to tile manufacture. Ensure joints are water tight, without voids, cracks, and/or excess grout. Where tile abuts building components which may not be level and/or plumb, install tile w/ plumb & level joints, & conceal final row of tile exhibiting variance beneath wall mounted cabinets, behind trim, & similar conveniences. Install crack control membrane for isolation from underlying cracks and cold joints in accordance w/ mfr's recommendations.

INTERIOR WALLS: Install backer board in accordance w/ mfr's instructions & thin set tile in accordance w/ TCA W244C-11.

GROUTING: Grout floors & walls using latex-modified portland cement grout in accordance w/ ANSI A108.10. Color to be selected by Architect from full range of available grout manufacturers' products.

EXPANSION/ CONTROL JOINTS: TCA EJ171. Provide sanded sealant in color to match approved grout.

| SEALER: Apply as per manufacturer's recommendations. | |
|--|-------------------|
| 09 64 | Wood Plank Floors |

[NOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE MATERIAL SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

1. Provide all materials, labor, equipment and services necessary to complete the wood strip flooring, as shown on the drawings and/or specified herein, including wood strip flooring and base, plywood subflooring (where noted), accessories, sleepers (where noted), and field finishing.

2. SUBMITTALS:

A. PRODUCT DATA: For flooring products.

B. SHOP DRAWINGS: Show installation details, including location and layout of each type of wood and accessory.

C. SAMPLES: For each type of wood and accessory, with stain and finish(es) required. approximately 12 inches long and of same thickness and material indicated for the work. Include sample sets showing full range of normal color and texture variations expected. D. MOCKUP: Minimum size 48" x 48".

3. MATERIALS AND COMPONENTS

A. FLOORING: 'Mirage' Carousel; 6" wide prefinished t&g planks in random lengths. Species: White Oak, Brushed Texture. Finish: Extra Matte Sheen. Provide w/ matching square-edged stair nosing, treads and risers. B. FINISH: Pre-finished. Matte sheen.

C. ADHESIVE & MOISTURE VAPOR BARRIER: 'Bostik' Ultra-Set SingleStep, one-part, trowel applied, tacking, moisture-cure urethane adhesive and moisture vapor retarder. D. FASTENERS: As recommended by manufacturer, but not less than that recommended by the NWFA (National Wood Flooring Association) 'Installation Guidelines'. E. SUBFLOOR FILLER: Premixed latex cementitious type 'Ardex' K 15.

4. EXAMINATION & PREPARATION: Remove all existing floor coverings (where they occur). Examine subsurfaces to receive Work are in compliance with NWFA 'Installation Guidelines' and with manufacturers' recommendations. Report all detrimental conditions in writing to Architect. Commencement of Work will be construed as acceptance of subsurfaces. Verify subfloor is properly secured, is smooth and flat to plus or minus 1/8 inch in 10 feet, free of sealers, oil, grease, dust, paint, and foreign substances. Completely remove cutback adhesive residue or other surface contaminants by diamond grinding to open the pores of the concrete. Concrete subfloor must have surface profile of CSP 2-3 (similar to light broom finish), as defined by the ICRI (International Concrete Repair Institute, Guideline No. 03732). Burnished, slick steel-troweled slabs may require screening with a 30-grit abrasive. Broom clean substrate. Use subfloor filler to patch cracks, honeycomb, small holes, and for minor leveling. Subfloor must be dry and within moisture requirements and moisture testing as per NWFA guidelines and manufacturer recommendations.

Coordinate with other Work which affects, connects with, or will be concealed by this Work. Verify that floor mounted utilities are in proper location. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work. 5. INSTALLATION:

Install using first class workmanship, following mfr's recommendations & instructions, supplemented by the NWFA's 'Installation Guidelines'. Lay flooring symmetrical to room center line, parallel to walls in pattern as directed by the Architect. Incorporate manufacturer-recommended expansion gaps within field randomly for natural appearance. Provide divider strips at centerline of door openings and where flooring terminates with other floor areas. Provide 1/4 expansion space at walls and other interruptions. Install moldings and trim with minimum of joints and mitered corners. If recommended by the manufacturer, use tape or tensioners, and weights, to maintain a tight floor. If recommended by the manufacturer, roll the floor with the proper roller.

6. PROTECTION:

Fully cover installed flooring to protect from damage before and after finishing, and during remainder of construction period. Use building paper or other suitable covering. Do not use plastic sheet or film that could cause condensation. Do not tape covering to finish flooring.

09 68 Carpet

[NOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE MATERIAL SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

CLASS II OR BETTER, DOC FF-1 "PILL TEST" PER NFPA 253. CLASS C OR BETTER PER ASTM E84.

| CARPET | 'GODFREY HIRST' <i>BIG SUR</i> P |
|--------|----------------------------------|
| | CUT-PILE, 100% DYED FIBER |
| | PROVIDE w/ 'HEALTHIER CHO |
| | COLOR TO BE SELECTED BY |
| 09 90 | Painting |

1. DESCRIPTION OF THE WORK: The work includes all materials, labor, equipment and services necessary to coordinate selection of materials and workmanship with paint manufacturer's representative, inspect surfaces prior to painting, prepare surfaces, correct any and all surface deviations exceeding specified tolerances, touch up damaged shop-primed surfaces, prime.

2. MATERIALS:

INTERIOR GYPSUM BOARD: Premium Zero VOC 100% Acrylic System. 'Dunn Edwards' Enso. INTERIOR WOOD, opaque finish: Premium Zero VOC 100% Acrylic System. 'Dunn Edwards' Enso.

INTERIOR WOOD, clear finish: 'Old Masters' 100% Pure Tung Oil. EXTERIOR WOOD, clear finish: 'Armstrong-Clark' Transparent Wood Stain, Natural Tone. INTERIOR FERROUS METAL, clear finish: 'Valspar' Val Oil Sealer EXTERIOR FERROUS METAL, opaque finish: 'PPG' Amercoat 385 (field touch-up); Amershield (finish coat).

PATTERNED LOOP & R, 350Z w/ SCOTCHGARD. IOICE' LOW-PROFILE PAD. ARCHITECT.

3. PREPARATION AND APPLICATION: Perform the work in accordance with manufacturer's recommendations for cleaning and surface preparation and treatment supplemented by manufacturer's recommendations made during onsite inspections. Field conditions may require the use of alternative surface preparation treatment as recommended by the manufacturer to ensure adequate bonding and coverage. Exterior ferrous metals to be surface preparation 6 (SP6) and shop primed. Welds shall be primed w/ primer compatible w/ shop primer.

Each coat will be applied at not less than the manufacturer's recommended spread rate (minimum dry film thickness), in accordance with manufacturer's recommendations and application instructions. Additional topcoats will be applied beyond that specified when undercoats or other conditions show through final topcoat, until dry film is of uniform finish, color and appearance. All materials will be brush, roll or spray-applied smoothly and evenly, free from brush marks sags, runs, crawls, voids ("holidays") and defects of any and all kinds.

| | SPECIALTIES |
|--|---|
| 10 14 | Signage |
| ADDRESS IDENTIFICATION | CUSTOM FABRICATED; BY OWNER TO MEET REQUIREMENTS OF 2015 IRC R319.1; LETTERS/NUMBERS OF 4" HEIGHT AND 0.5" STROKE IN CONTRASTING COLOR TO THE BACKGROUND. |
| 10 28 | Toilet Accessories |
| | bor, materials, equipment and services necessary to |
| • | shown on the drawings and/or specified herein. |
| nstructions for each toilet accesso | r's technical data, catalogue cuts and installation ory. |
| Setting Drawings: Provide setting of installation of anchorage devices in the setting of anchorage dev | drawings, templates, instructions, and directions for n other work. |
| Submit schedule of accessories in | dicating quantity and location of each item. |
| containers and packaging, bearing | dy for use in the manufacturer's original and unopened labels as to type or material, manufacturer's name and hall be identical to approved samples. |
| MATERIALS Stainless Steel: AISI Type 302/304 otherwise indicated. | l, with polished No. 4 finish, 22 gauge minimum, unless |
| | omium electro-deposited on base metal, ASTM B 456, Type |
| | ring quality, clear glass mirrors, nominal 1/4" thick. |
| which they are being used. | e, chrome plated, or stainless steel; match finishes on |
| Concealed Fasteners: Galvanized (No exposed fastening devices perr | |
| | |
| TOILET PAPER HOLDER | 'TAYMOR' Tenor Collection 04-32048BLK |
| TOWEL BAR | 'TAYMOR' Tenor Collection 04-32024BLK |
| | 'TAYMOR' Tenor Collection 04-32001BLK |
| | 'TAYMOR' Tenor Collection 04-32009BLK |
| | -NOT PROVIDED- |
| SHOWER ROD | 'TAYMOR' adjustable curved shower rod 01-C6289 |
| EXECUTION INSPECTION: | |
| Examine the areas and conditions conditions conditions detrimental to the prope | where toilet accessories are to be installed and correct any er and timely completion of the work. Do not proceed with itions are corrected to permit proper installation of the work. |
| the accessories at gypsum drywal | vings and anchor plates required for the proper installation of I and masonry partitions. Coordinate the work to assure that are in the proper position to secure the accessories. |
| dimensions which are at variance of the Architect. Obtain decision re | he job site those dimensions affecting the work. Bring field with those on the approved shop drawings to the attention garding corrective measures before the start of fabrication coordination and scheduling of the work of this Section as not to delay job progress. |
| INSTALLATION: | |
| using skilled mechanics, in a plum for gypsum drywall partitions shall accessories. Secure accessories indicated, accessories shall confor drawings. Where locations are not Architect. Installed accessories sh | icated on the drawings, or as directed by the Architect, b, level and secure manner. Concealed anchor assemblies I be securely anchored to framing to accommodate in place as per the manufacturer. Unless otherwise rm to heights from the finished floor as shown on the indicated, such locations shall be as directed by the hall operate quietly and smoothly for use intended. Doors tion without binding or unnecessary friction. |
| | · · · · · · · · · · · · · · · · · · · |
| 10 30 | FIREPLACES |

A. FREESTANDING FIREPLACES (Direct Vent Factory-built Fireplace): 'Malm' Zircon 30" model steel fabricated firebox and corresponding chimney tested in accordance with UL 737 compliant. Matte Black finish, 7" connector size. Provide 24" slip section(s) as required for ceiling height. Supply with manufacturer's standard screen, and optional M16 iron grate. Provide as customized unit for direct-set to hearth (no integral base). Provide manufacturer's touch-up matte black aerosol paint for repairs, and turn over to Owner.

B. CHIMNEY: 'Duravent' DuraTech 5" - 8" dual wall insulated chimney flue meeting UL 103 for type HT chimney, with black finish and square box sloped ceiling adapter with trim plate and collar for connection to fireplace stovepipe. Provide manufacturer's adjustable elbow straps, adjustable roof support 5DT-ARS, finishing collar adapter #9558, attic insulation shield, and all exterior accessories required for a complete, code-compliant, and weathertight installation. C. HEARTH Hearth extension to be provided in accordance with listing of fireplace - material to be readily distinguishable from the surrounding floor area and comply with UL 1618.

| INSTALLATION: | | | | |
|---|--|---|---|---|
| Install linit in strict accordance with | n manufacturer's instructions; all components are to be | SPRINKLERS | CONCEALED HEAD WET PIPE SYSTEM w/FREEZE PROTECTION (HEAT TRACE) WHERE EXPOSED TO | |
| | -built fireplace and chimney system, and in accordance | | POTENTIAL FREEZING. DESIGN/ENGINEERING, | |
| with Building Code, and any local r | equirements. | | PERMITTING, AND INSTALLATION BY CONTRACTOR. | |
| NOTE: Provide interlock devices wi | th house outside air intake fan to ensure interior of house | | REFER TO REFLECTED CEILING PLANS FOR | |
| remains neutral or positive as per l | | | CONCEPTUAL LAYOUT. PROVIDE ADDITIONAL HEADS | architect STUDIO MA |
| 10 50 | STORAGE SPECIALTIES | | AS REQUIRED AND/OR WHERE REQUESTED BY ARCHITECT, AT NO ADDITIONAL COST, TO MAINTAIN | 130 N Central Avenue No.300 |
| | ent and services necessary to furnish and install | | SPECIAL ALIGNMENTS OR RELATIONSHIPS WHILE | Phoenix, Arizona 85004 T 602 251 3800 |
| | bry furniture and equipment; coordinate with all required ponents, fasteners, and ancillary materials as required for a | | MAINTAINING CODE-COMPLIANT DESIGN. | |
| complete installation. | | | NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS | sma project no. 16-101 |
| SCHEDULE | | | FOR APPROVAL BY ARCHITECT PRIOR TO PERMITTING | 10-101 |
| SKI/SNOWBOARD RACK | 'MONKEY BARS' storage rack system consisting of the | | AND COMMENCING WORK. | sma project name |
| | following components: 2 - Single Bar Brackets | | ALL CONCEALED HEADS (SIDEWALL AND CEILING) TO | POWDERCAT |
| | 1 - 51" Monkey Bar | | BE PRE-FINISHED WHITE, TYPICAL. | COPYRIGHT 2017 STUDIO MA |
| | 3 - 6" Narrow Hooks 2 - 12" Hooks | 22 | PLUMBING | This document is an instrument of service and shall remain the |
| | 1 - Hardware Bag | Refer to Plumbing drawings for ger | neral plumbing piping and fixture requirements. | property of the Architect, who shall |
| BICYCLE RACK | 'TOPEAK' Dual-Touch Bike Stand | Provide full perimeter foundation dr | ainage system, and sub-slab drainage below all occupied | retain all common law, statutory |
| BOOT DRYERS | 'DryX' Rustic Design - 4-pair boot and glove dryer with | - | vel of every unit. Pipe for sub-slab and foundation drain: | and other reserved rights, including the copyright thereto. |
| | customized end panels. | d 2665, drain for continuation to si | 65, drain to 5 feet from building, solid-wall pvc pipe: astm te storm drainage system. | |
| EXECUTION INSPECTION: | | 22 40 | Plumbing Fixtures | OWNER orr powdercat th development, llc |
| | where storage products and equipment are to be installed | | UPGRADE PACKAGE' FOR ALTERNATE FIXTURES | 11180 sunrise valley drive, ste 300 |
| | ntal to the proper and timely completion of the work. Do not | E | PREHENSIVE UPGRADE OPTION - REFER TO THIS | reston, va 20191 t (703) 289-2125 |
| of the work. | factory conditions are corrected to permit proper installation | SECTION FOR ALL ACCESSORIES | AND INSTALLATION REQUIREMENTS.] | |
| | | FIXTURES: | | CIVIL talisman civil consultants |
| PREPARATION: Furnish templates and setting draw | ings and anchor plates required for the proper installation of | | d all faucets and controls to be polished chrome unless | 5217 south state st, ste 200 |
| the accessories at gypsum drywall | and masonry partitions. Coordinate the work to assure that | noted otherwise. | · | murray, ut 84107 |
| base plates, blocking, and/or anche accessories. | oring frames are in the proper position to secure the | TOILET | 'DURAVIT' STARK 3 ONE-PIECE ELONGATED #212001 | t (801) 743-1308 |
| | | SEAT AND COVER | 'DURAVIT' #006339 | STRUCTURAL |
| | ne job site those dimensions affecting the work. Bring field | LAV - UNDERMOUNT | 'LACAVA' <i>CUBE #</i> 5451 | rudow+berry, inc. 4032 n miller rd. a100 |
| | vith those on the approved shop drawings to the attention garding corrective measures before the start of fabrication | DRAIN | 'LACAVA' #7100-12 | scottsdale, az 85251 |
| - | coordination and scheduling of the work of this Section | SINGLE HOLE, SINGLE LEVER | 'MOEN' <i>ALIGN #</i> 6190 | t (480) 946-8171 |
| with the work of other Sections so | as not to delay job progress. | FAUCET | | MECH/PLBG/ELEC |
| INSTALLATION: | | POWDER ROOM LAVATORY | 'DURAVIT' <i>ARCHITEC</i> WALL MOUNT LAVATORY #076635 | peterson associates consulting engineers, inc. |
| | on the drawings, or as directed by the Architect, using I and secure manner. Secure accessories in place as per | TRAP | | 7201 n dreamy draw dr, ste 200 |
| the manufacturer. Unless otherwis | e indicated, accessories shall conform to heights from the | POWDER ROOM FAUCET | POLISHED CHROME BOTTLE TRAP REFER TO SINGLE HOLE, SINGLE LEVER FAUCET | phoenix, az 85020 |
| | vings. Where locations are not indicated, such locations t. Installed accessories shall be firmly affixed to building | SHOWER HEAD | SPEAKMAN' <i>ICON #</i> S-2252-E2, 2.0 GPM. | t (602) 388-1732 |
| and function properly for use intend | , , , , , , , , , , , , , , , , , , , | SHOWER ARM & FLANGE | 'SPEAKMAN' <i>NEO #</i> S-2232-22, 2.0 Gr M. | LANDSCAPE |
| 11 | EQUIPMENT | HAND SHOWER AND DIVERTER | 'SPEAKMAN' <i>NEO #</i> VS-3010-E2, 2.0 GPM w/ 'MOEN' | langvardt design group 328 W 200 S |
| | | | | |
| 11 30 | Residential Equipment | | ALIGN #T4191 AND #3372 TRANSFER VALVE & TRIM | salt lake city, ut 84101 |
| 11 30 | Residential Equipment | PRESSURE BALANCING AND | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' | salt lake city, ut 84101 t (801) 583-1295 |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS | TEMPERATURE CONTROL VALVE | | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT | TEMPERATURE CONTROL VALVE & TRIM | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipm built-in and/or freestanding applian | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] | TEMPERATURE CONTROL VALVE & TRIM | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipm built-in and/or freestanding applian available. | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] nent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipm built-in and/or freestanding applian | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] nent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipm built-in and/or freestanding applian available. COOKTOP AND DOWNDRAFT | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] nent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> 'INFINITY DRAIN' #FFAS-25 | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipm built-in and/or freestanding applian available. COOKTOP AND DOWNDRAFT | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] nent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST TO TERMINATE AT EXTERIOR SOFFIT). BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/ | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET | 'MOEN' <i>ALIGN #</i> T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> 'INFINITY DRAIN' #FFAS-25 2" w/ DRAINAGE CHANNELS, 'INFIITY DRAIN' CD_22, OR | 5, |
| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipm built-in and/or freestanding applian available. COOKTOP AND DOWNDRAFT VENT | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] nent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST TO TERMINATE AT EXTERIOR SOFFIT). BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/ DHD3614UC DOWNDRAFT VENT | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET CLAMP DOWN ASSEMBLY | 'MOEN' ALIGN #T3291 VALVE TRIM w/ 'MOEN' MOENTROL #3570 VALVE 'INFINITY DRAIN' #FFAS-25 2" w/ DRAINAGE CHANNELS, 'INFIITY DRAIN' CD_22, OR EQUIVALENT (REF. PLBG FOR MAT'L REQ'S) <u>NOTE</u>: Bottom of shower head to be not less than 80" above finished elevation of shower floor. | 5, |
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| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipment built-in and/or freestanding appliant available. COOKTOP AND DOWNDRAFT VENT OVEN DISHWASHER MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all woor related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finits 13 13 17 All hot tubs are by Owner. Hot tubs | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] ent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST TO TERMINATE AT EXTERIOR SOFFIT). BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/ DHD3614UC DOWNDRAFT VENT ELECTRIC 30" WALL OVEN, STAINLESS STEEL, UNDER COUNTER. PROVIDE FILLER PANELS TO MATCH CABINETRY AS REQUIRED. BASIS OF DESIGN: 'BOSCH' HBL5351UC BUILT-IN 24" UNDERCOUNTER DISHWASHER, STAINLESS STEEL TUB, WITH PANEL TO MATCH CABINETRY. ENERGY STAR. BASIS OF DESIGN: 'BOSCH' SHVM63W53N FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GF GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, r manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain shed surfaces unblemished. SPECIAL CONSTRUCTION Hot Tubs and Pools s, spas, and therapeutic pools to be installed in accordance | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, W/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET CLAMP DOWN ASSEMBLY BATHTUB - DECK MOUNT-TYPE w/ APRON AND DECK TUB FILLER FAUCET VALVE KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER HOSE BIBBS, FREEZE-PROOF WATER HEATER, ELECTRIC TANK STYLE WHOLE-HOUSE WATER FILTER 23 | 'MOEN' <i>ALIGN #</i>T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> 'INFINITY DRAIN' #FFAS-25 'INFINITY DRAIN' #FFAS-25 'INFINITY DRAIN' (CEP (CONTROL PLUS)) NOTE: Bottom of shower head to be not less than 80" above finished elevation of shower floor. 'DURAVIT' STARK #70033600000090 w/ #ST8938 TOP (DECK) PANEL FOR NICHE (ALCOVE) CONDITION, #790112 TILE FLANGE, #790220 CABLE-DRIVEN WASTE AND OVERFLOW, #790103 ANCHORS, #790108 SUPPORT FRAME, AND #701067 ACRYLIC FRONT PANEL 'MOEN' <i>ALIGN</i> T394 TWO-HANDLE DIVERTER ROMAN TUB FAUCET w/ HAND SHOWER 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' <i>ALIGN</i> #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON 'INSINKERATOR' #STS-00 REF PLUMBING DRAWINGS REF PLUMBING DRAWINGS N.I.C BY OWNER | t (801) 583-1295 |
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| [NOTE TO GC: REFER TO 'OWNER SPECIFICATION AS PART OF COM SECTION FOR ALL ACCESSORIES Provide all materials, labor, equipment built-in and/or freestanding appliant available. COOKTOP AND DOWNDRAFT VENT OVEN OVEN DISHWASHER MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all woor related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finits 13 13 17 All hot tubs are by Owner. Hot tubs with IRC 2015 chapter 42, packag from spa at a distance of no less to | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] ent and services necessary to install owner-provided ces. Provide Energy Star compliant appliances where 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST TO TERMINATE AT EXTERIOR SOFFIT). BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/ DHD3614UC DOWNDRAFT VENT ELECTRIC 30" WALL OVEN, STAINLESS STEEL, UNDER COUNTER. PROVIDE FILLER PANELS TO MATCH CABINETRY AS REQUIRED. BASIS OF DESIGN: 'BOSCH' HBL5351UC BUILT-IN 24" UNDERCOUNTER DISHWASHER, STAINLESS STEEL TUB, WITH PANEL TO MATCH CABINETRY. ENERGY STAR. BASIS OF DESIGN: 'BOSCH' SHVM63W53N FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREZER W/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, r manufacturer's recommendations and installation inginment with one another and with adjacent work. Maintain shed surfaces unblemished. SPECIAL CONSTRUCTION Hot Tubs and Pools 5, spas, and therapeutic pools to be installed in accordance ed spa. Provide electrical disconnect within line of sight an 5 feet. Provide GFCI outlets as required for heater, petween 6 and 10 feet from inside walls of spa. All other | TEMPERATURE CONTROL VALVE & TRIM FULL-WIDTH LINEAR DRAIN, SATIN SSTL, W/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET CLAMP DOWN ASSEMBLY BATHTUB - DECK MOUNT-TYPE w/ APRON AND DECK TUB FILLER FAUCET VALVE KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER HOSE BIBBS, FREEZE-PROOF WATER HEATER, ELECTRIC TANK STYLE WHOLE-HOUSE WATER FILTER 23 | 'MOEN' <i>ALIGN #</i>T3291 VALVE TRIM w/ 'MOEN' <i>MOENTROL #3570 VALVE</i> 'INFINITY DRAIN' #FFAS-25 'INFINITY DRAIN' #FFAS-25 'INFINITY DRAIN' (CEP (CONTROL PLUS)) NOTE: Bottom of shower head to be not less than 80" above finished elevation of shower floor. 'DURAVIT' STARK #70033600000090 w/ #ST8938 TOP (DECK) PANEL FOR NICHE (ALCOVE) CONDITION, #790112 TILE FLANGE, #790220 CABLE-DRIVEN WASTE AND OVERFLOW, #790103 ANCHORS, #790108 SUPPORT FRAME, AND #701067 ACRYLIC FRONT PANEL 'MOEN' <i>ALIGN</i> T394 TWO-HANDLE DIVERTER ROMAN TUB FAUCET w/ HAND SHOWER 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' <i>ALIGN</i> #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON 'INSINKERATOR' #STS-00 REF PLUMBING DRAWINGS REF PLUMBING DRAWINGS N.I.C BY OWNER | t (801) 583-1295 |

| | h manufacturer's instructions; all components are to be y-built fireplace and chimney system, and in accordance requirements | SPRINKLERS | CONCEALED HEAD WET PIPE SYSTEM w/FREEZE PROTECTION (HEAT TRACE) WHERE EXPOSED TO POTENTIAL FREEZING. DESIGN/ENGINEERING, PERMITTING, AND INSTALLATION BY CONTRACTOR. | |
|---|--|---|---|--|
| | ith house outside air intake fan to ensure interior of house | | REFER TO REFLECTED CEILING PLANS FOR | |
| remains neutral or positive as per | | | CONCEPTUAL LAYOUT. PROVIDE ADDITIONAL HEADS | architect STUDIO MA |
| 10 50 | STORAGE SPECIALTIES | | AS REQUIRED AND/OR WHERE REQUESTED BY ARCHITECT, AT NO ADDITIONAL COST, TO MAINTAIN | 130 N Central Avenue No.300 |
| | nent and services necessary to furnish and install ory furniture and equipment; coordinate with all required | | SPECIAL ALIGNMENTS OR RELATIONSHIPS WHILE | Phoenix, Arizona 85004 T 602 251 3800 |
| | nponents, fasteners, and ancillary materials as required for a | | MAINTAINING CODE-COMPLIANT DESIGN. | |
| complete installation. | | | NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS | sma project no. 16-101 |
| SCHEDULE | | | FOR APPROVAL BY ARCHITECT PRIOR TO PERMITTING AND COMMENCING WORK. | |
| SKI/SNOWBOARD RACK | 'MONKEY BARS' storage rack system consisting of the following components: | | | sma project name POWDERCAT |
| | following components: 2 - Single Bar Brackets | | ALL CONCEALED HEADS (SIDEWALL AND CEILING) TO BE PRE-FINISHED WHITE, TYPICAL. | OWDERIONT |
| | 1 - 51" Monkey Bar | 22 | PLUMBING | COPYRIGHT 2017 STUDIO MA This document is an instrument of |
| | 3 - 6" Narrow Hooks 2 - 12" Hooks | | | service and shall remain the |
| | 1 - Hardware Bag | nelei to fiulliding ulawings iol gei | neral plumbing piping and fixture requirements. | property of the Architect, who shall |
| BICYCLE RACK | 'TOPEAK' Dual-Touch Bike Stand | | ainage system, and sub-slab drainage below all occupied | retain all common law, statutory and other reserved rights, including |
| BOOT DRYERS | 'DryX' Rustic Design - 4-pair boot and glove dryer with | - | vel of every unit. Pipe for sub-slab and foundation drain: 665, drain to 5 feet from building, solid-wall pvc pipe: astm | the copyright thereto. |
| EXECUTION | customized end panels. | d 2665, drain for continuation to si | | OWNER |
| INSPECTION: | | 22 40 | Plumbing Fixtures | orr powdercat th development, llc |
| | where storage products and equipment are to be installed | - | UPGRADE PACKAGE' FOR ALTERNATE FIXTURES | 11180 sunrise valley drive, ste 300 reston, va 20191 |
| | ental to the proper and timely completion of the work. Do not sfactory conditions are corrected to permit proper installation | | PREHENSIVE UPGRADE OPTION - REFER TO THIS | t (703) 289-2125 |
| of the work. | | | AND INSTALLATION REQUIREMENTS.] | CIVIL |
| PREPARATION: | | FIXTURES: | | talisman civil consultants |
| Furnish templates and setting drav | vings and anchor plates required for the proper installation of | | d all faucets and controls to be polished chrome unless | 5217 south state st, ste 200 |
| | Il and masonry partitions. Coordinate the work to assure that noring frames are in the proper position to secure the | noted otherwise. | 'DURAVIT' <i>STARK 3</i> ONE-PIECE ELONGATED #212001 | murray, ut 84107 t (801) 743-1308 |
| accessories. | ושלי איז איז איז איז איז איז איז איז איז אי | | | |
| Verify hy measurements taken at t | the job site those dimensions affecting the work. Bring field | | 'DURAVIT' #006339 | STRUCTURAL rudow+berry, inc. |
| dimensions which are at variance | with those on the approved shop drawings to the attention | LAV - UNDERMOUNT DRAIN | 'LACAVA' <i>CUBE #</i> 5451 'LACAVA' <i>#</i> 7100-12 | 4032 n miller rd. a100 |
| | egarding corrective measures before the start of fabrication | | | scottsdale, az 85251 t (480) 946-8171 |
| with the work of other Sections so | e coordination and scheduling of the work of this Section as not to delay job progress. | SINGLE HOLE, SINGLE LEVER FAUCET | 'MOEN' <i>ALIGN #</i> 6190 | |
| | | POWDER ROOM LAVATORY | 'DURAVIT' ARCHITEC WALL MOUNT LAVATORY | MECH/PLBG/ELEC peterson associates consulting |
| INSTALLATION: Install itesm at locations indicated | on the drawings, or as directed by the Architect, using | | #076635 | engineers, inc. |
| skilled mechanics, in a plumb, leve | el and secure manner. Secure accessories in place as per | TRAP | POLISHED CHROME BOTTLE TRAP | 7201 n dreamy draw dr, ste 200 phoenix, az 85020 |
| | se indicated, accessories shall conform to heights from the wings. Where locations are not indicated, such locations | POWDER ROOM FAUCET | REFER TO SINGLE HOLE, SINGLE LEVER FAUCET | t (602) 388-1732 |
| shall be as directed by the Archite | ct. Installed accessories shall be firmly affixed to building | SHOWER HEAD | 'SPEAKMAN' <i>ICON #</i> S-2252-E2, 2.0 GPM. | |
| and function properly for use inten | | SHOWER ARM & FLANGE HAND SHOWER AND DIVERTER | 'SPEAKMAN' <i>NEO #</i> S-2540 'SPEAKMAN' <i>NEO #</i> VS-3010-E2, 2.0 GPM w/ 'MOEN' | LANDSCAPE langvardt design group |
| 11 | EQUIPMENT | | ALIGN #T4191 AND #3372 TRANSFER VALVE & TRIM | 328 W 200 S |
| 11 30 | Residential Equipment | PRESSURE BALANCING AND | 'MOEN' ALIGN #T3291 VALVE TRIM w/ 'MOEN' | salt lake city, ut 84101 t (801) 583-1295 |
| - | UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT | TEMPERATURE CONTROL VALVE | MOENTROL #3570 VALVE | |
| | IPREHENSIVE UPGRADE OPTION - REFER TO THIS S AND INSTALLATION REQUIREMENTS.] | & TRIM | | |
| Provide all materials Jahor, equipr | nent and services necessary to install owner-provided | FULL-WIDTH LINEAR DRAIN, | 'INFINITY DRAIN' #FFAS-25 | |
| | nces. Provide Energy Star compliant appliances where | SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END | | |
| available. | | STOPS, AND INTEGRAL OUTLET | | |
| COOKTOP AND DOWNDRAFT VENT | 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST | CLAMP DOWN ASSEMBLY | 2" w/ DRAINAGE CHANNELS 'INFILTY DRAIN' CD 22 OR | |
| | TO TERMINATE AT EXTERIOR SOFFIT). | | 2" w/ DRAINAGE CHANNELS, 'INFIITY DRAIN' CD_22, OR EQUIVALENT (REF. PLBG FOR MAT'L REQ'S) | |
| | BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/ | | NOTE: Bottom of shower head to be not less than 80" | |
| | DHD3614UC DOWNDRAFT VENT | | <u>NOTE</u> : Bottom of snower head to be not less than 80" above finished elevation of shower floor. | |
| OVEN | ELECTRIC 30" WALL OVEN, STAINLESS STEEL, UNDER | BATHTUB - DECK MOUNT-TYPE | 'DURAVIT' STARK #70033600000090 w/ #ST8938 | |
| | COUNTER. PROVIDE FILLER PANELS TO MATCH CABINETRY AS REQUIRED. | w/ APRON AND DECK | TOP (DECK) PANEL FOR NICHE (ALCOVE) CONDITION, #790112 TILE FLANGE, #790220 CABLE-DRIVEN | DE OF US |
| | | | WASTE AND OVERFLOW, #790103 ANCHORS, | (mine 1) min |
| | BASIS OF DESIGN: 'BOSCH' HBL5351UC | | #790108 SUPPORT FRAME, AND #701067 ACRYLIC FRONT PANEL | DANIEL HOFFMAN No. 7829867-0301 |
| DISHWASHER | BUILT-IN 24" UNDERCOUNTER DISHWASHER, STAINLESS STEEL TUB, WITH PANEL TO MATCH | | | June 1, 2017. |
| | CABINETRY. ENERGY STAR. | TUB FILLER | 'MOEN' <i>ALIGN</i> T394 TWO-HANDLE DIVERTER ROMAN TUB FAUCET w/ HAND SHOWER | SED ARCHING |
| | BASIS OF DESIGN: 'BOSCH' SHVM63W53N | | TUD FAUGET W/ HAND SHUWER | |
| REFRIGERATOR, TYPICAL UNIT | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR | FAUCET VALVE | 'MOEN' 9792 VALVE | |
| | / FREEZER w/FILTRATION & ICE MAKER, SSTL. | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT | 'MOEN' 1800-SERIES #G18180 | |
| | ENERGY STAR. | 31"x18" w/REAR DRAIN, SOUND | | |
| | BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 | DEADENING | | |
| MICROWAVE | 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. | 3-1/2" SATIN SSTL STRAINER | 'MOEN' #22037 | |
| | BASIS OF DESIGN: 'BOSCH' HMD8451UC | | | |
| WASHER AND DRYER | STACKED FRONT-LOADING WASHER AND DRYER | SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET | 'MOEN' <i>ALIGN #</i> 7565 | |
| | BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW | 3/4 HP GARBAGE DISPOSAL | 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS | |
| | bod blocking is in place and secured to framing. Provide all | CONTROLLER | 'INSINKERATOR' SINKTOP SWITCH BUTTON | |
| | e and functional installation including filters, lamps, er manufacturer's recommendations and installation | PROVIDE w/ SINK FLANGE AND | 'INSINKERATOR' #STS-00 | |
| instructions, plumb, level, in true a | alignment with one another and with adjacent work. Maintain | SSTL STOPPER HOSE BIBBS, FREEZE-PROOF | REF PLUMBING DRAWINGS | |
| dimensional tolerances. Leave fini | | WATER HEATER, ELECTRIC TANK | | AO.22 |
| 13 | SPECIAL CONSTRUCTION | STYLE | | SPECIFICATIONS |
| 13 17 | Hot Tubs and Pools | WHOLE-HOUSE WATER FILTER | N.I.C BY OWNER | |
| - | s, spas, and therapeutic pools to be installed in accordance | 23 | HVAC | |
| | ged spa. Provide electrical disconnect within line of sight than 5 feet. Provide GFCI outlets as required for heater, | RADIANT IN-FLOOR HYDRONIC SY | STEM - REF MECHANICAL DRAWINGS. | |
| pump, lights, etc. at a distance of | between 6 and 10 feet from inside walls of spa. All other | 26 | ELECTRICAL | scale |
| outlets to be no closer than 6 feet 21 | from inside walls of spa. FIRE SUPPRESION | | | |
| | | | | |

| INSTALLATION: Install unit in strict accordance with | n manufacturer's instructions; all components are to be | SPRINKLERS | CONCEALED HEAD WET PIPE SYSTEM w/FREEZE PROTECTION (HEAT TRACE) WHERE EXPOSED TO | |
|--|---|--|---|--|
| | v-built fireplace and chimney system, and in accordance | | POTENTIAL FREEZING. DESIGN/ENGINEERING, PERMITTING, AND INSTALLATION BY CONTRACTOR. | |
| NOTE: Provide interlock devices wi remains neutral or positive as per I | ith house outside air intake fan to ensure interior of house RC Section R1006.1. | | REFER TO REFLECTED CEILING PLANS FOR CONCEPTUAL LAYOUT. PROVIDE ADDITIONAL HEADS | architect |
| 10 50 | STORAGE SPECIALTIES | | AS REQUIRED AND/OR WHERE REQUESTED BY ARCHITECT, AT NO ADDITIONAL COST, TO MAINTAIN | STUDIO MA 130 N Central Avenue No.300 |
| | nent and services necessary to furnish and install bry furniture and equipment; coordinate with all required | | SPECIAL ALIGNMENTS OR RELATIONSHIPS WHILE MAINTAINING CODE-COMPLIANT DESIGN. | Phoenix, Arizona 85004 T 602 251 3800 |
| | ponents, fasteners, and ancillary materials as required for a | | NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS | sma project no. |
| SCHEDULE | | | FOR APPROVAL BY ARCHITECT PRIOR TO PERMITTING | 16-101 |
| SKI/SNOWBOARD RACK | 'MONKEY BARS' storage rack system consisting of the following components: | | AND COMMENCING WORK. | sma project name POWDERCAT |
| | 2 - Single Bar Brackets 1 - 51" Monkey Bar | | ALL CONCEALED HEADS (SIDEWALL AND CEILING) TO BE PRE-FINISHED WHITE, TYPICAL. | COPYRIGHT 2017 STUDIO MA |
| | 3 - 6" Narrow Hooks 2 - 12" Hooks | 22 | PLUMBING | This document is an instrument of service and shall remain the |
| | 1 - Hardware Bag | Refer to Plumbing drawings for ger | neral plumbing piping and fixture requirements. | property of the Architect, who shall retain all common law, statutory |
| BICYCLE RACK | 'TOPEAK' <i>Dual-Touch Bike Stand</i> | - | ainage system, and sub-slab drainage below all occupied vel of every unit. Pipe for sub-slab and foundation drain: | and other reserved rights, including |
| BOOT DRYERS | 'DryX' Rustic Design - 4-pair boot and glove dryer with customized end panels. | perforated wall pvc pipe: astm d 26 d 2665, drain for continuation to sit | 65, drain to 5 feet from building, solid-wall pvc pipe: astm te storm drainage system. | the copyright thereto. |
| EXECUTION INSPECTION: | | 22 40 | Plumbing Fixtures | OWNER orr powdercat th development, llc |
| | where storage products and equipment are to be installed ental to the proper and timely completion of the work. Do not | E | UPGRADE PACKAGE' FOR ALTERNATE FIXTURES PREHENSIVE UPGRADE OPTION - REFER TO THIS | 11180 sunrise valley drive, ste 300 reston, va 20191 |
| | factory conditions are corrected to permit proper installation | | AND INSTALLATION REQUIREMENTS.] | t (703) 289-2125 |
| PREPARATION: | | FIXTURES: | | CIVIL talisman civil consultants |
| Furnish templates and setting draw | rings and anchor plates required for the proper installation of | | d all faucets and controls to be polished chrome unless | 5217 south state st, ste 200 murray, ut 84107 |
| base plates, blocking, and/or anch | I and masonry partitions. Coordinate the work to assure that oring frames are in the proper position to secure the | TOILET | 'DURAVIT' STARK 3 ONE-PIECE ELONGATED #212001 | t (801) 743-1308 |
| accessories. | | SEAT AND COVER | 'DURAVIT' #006339 | |
| dimensions which are at variance | he job site those dimensions affecting the work. Bring field with those on the approved shop drawings to the attention | LAV - UNDERMOUNT DRAIN | 'LACAVA' <i>CUBE #</i> 5451 'LACAVA' <i>#</i> 7100-12 | rudow+berry, inc. 4032 n miller rd. a100 |
| | garding corrective measures before the start of fabrication coordination and scheduling of the work of this Section | SINGLE HOLE, SINGLE LEVER | 'MOEN' <i>ALIGN #</i> 6190 | scottsdale, az 85251 t (480) 946-8171 |
| with the work of other Sections so | as not to delay job progress. | FAUCET | | MECH/PLBG/ELEC |
| INSTALLATION: Install itesm at locations indicated | on the drawings, or as directed by the Architect, using | POWDER ROOM LAVATORY | 'DURAVIT' <i>ARCHITEC</i> WALL MOUNT LAVATORY #076635 | peterson associates consulting engineers, inc. |
| skilled mechanics, in a plumb, leve | el and secure manner. Secure accessories in place as per se indicated, accessories shall conform to heights from the | TRAP | POLISHED CHROME BOTTLE TRAP | 7201 n dreamy draw dr, ste 200 phoenix, az 85020 |
| finished floor as shown on the drav | wings. Where locations are not indicated, such locations ct. Installed accessories shall be firmly affixed to building | POWDER ROOM FAUCET | REFER TO SINGLE HOLE, SINGLE LEVER FAUCET 'SPEAKMAN' <i>ICON #</i> S-2252-E2, 2.0 GPM. | t (602) 388-1732 |
| and function properly for use inten | ded. | SHOWER ARM & FLANGE | 'SPEAKMAN' NEO #S-2540 | LANDSCAPE langvardt design group |
| 11 | EQUIPMENT | HAND SHOWER AND DIVERTER | 'SPEAKMAN' <i>NEO #</i> VS-3010-E2, 2.0 GPM w/ 'MOEN' ALIGN #T4191 AND #3372 TRANSFER VALVE & TRIM | 328 W 200 S salt lake city, ut 84101 |
| 11 30 | Residential Equipment UPGRADE PACKAGE' FOR ALTERNATE EQUIPMENT | PRESSURE BALANCING AND | 'MOEN' ALIGN #T3291 VALVE TRIM w/ 'MOEN' | t (801) 583-1295 |
| SPECIFICATION AS PART OF COM | PREHENSIVE UPGRADE OPTION - REFER TO THIS AND INSTALLATION REQUIREMENTS.] | TEMPERATURE CONTROL VALVE & TRIM | MOENTROL #3570 VALVE | |
| | nent and services necessary to install owner-provided | FULL-WIDTH LINEAR DRAIN, | 'INFINITY DRAIN' #FFAS-25 | |
| | ices. Provide Energy Star compliant appliances where | SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END | | |
| COOKTOP AND DOWNDRAFT | 36"W INDUCTION COOKTOP, SSTL & GLASS, w/ | STOPS, AND INTEGRAL OUTLET | | |
| VENT | TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST TO TERMINATE AT EXTERIOR SOFFIT). | CLAMP DOWN ASSEMBLY | 2" w/ DRAINAGE CHANNELS, 'INFIITY DRAIN' CD_22, OR EQUIVALENT (REF. PLBG FOR MAT'L REQ'S) | |
| | BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/ | | NOTE: Bottom of shower head to be not less than 80" | |
| OVEN | DHD3614UC DOWNDRAFT VENT ELECTRIC 30" WALL OVEN, STAINLESS STEEL, UNDER | BATHTUB - DECK MOUNT-TYPE | above finished elevation of shower floor. 'DURAVIT' STARK #70033600000090 w/ #ST8938 | |
| | COUNTER. PROVIDE FILLER PANELS TO MATCH CABINETRY AS REQUIRED. | w/ APRON AND DECK | TOP (DECK) PANEL FOR NICHE (ALCOVE) CONDITION, #790112 TILE FLANGE, #790220 CABLE-DRIVEN | TE OF UN |
| | BASIS OF DESIGN: 'BOSCH' HBL5351UC | | WASTE AND OVERFLOW, #790103 ANCHORS, #790108 SUPPORT FRAME, AND #701067 ACRYLIC | DANIEL HOFFMAN |
| DISHWASHER | BUILT-IN 24" UNDERCOUNTER DISHWASHER, STAINLESS STEEL TUB, WITH PANEL TO MATCH | | FRONT PANEL | No. 7829867-0301 |
| | CABINETRY. ENERGY STAR. | TUB FILLER | 'MOEN' <i>ALIGN</i> T394 TWO-HANDLE DIVERTER ROMAN TUB FAUCET w/ HAND SHOWER | SED ARCHION |
| | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| | BASIS OF DESIGN: 'BOSCH' SHVM63W53N | ΕΛΠΩΕΤ ΜΑΙ ΜΕ | | |
| REFRIGERATOR, TYPICAL UNIT | BASIS OF DESIGN: 'BOSCH' SHVM63W53N FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. | FAUCET VALVE KITCHEN SINK 18GA SINGLE | 'MOEN' 9792 VALVE 'MOEN' <i>1800-SERIES #</i> G18180 | |
| REFRIGERATOR, TYPICAL UNIT | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND | 'MOEN' 9792 VALVE | |
| | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT | 'MOEN' 9792 VALVE | |
| REFRIGERATOR, TYPICAL UNIT | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND | 'MOEN' 9792 VALVE | |
| | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER | 'MOEN' 9792 VALVE 'MOEN' <i>1800-SERIES #</i> G18180 | |
| MICROWAVE WASHER AND DRYER | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL | 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' ALIGN #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS | |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER | 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' #22037 'MOEN' ALIGN #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON | |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, er manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER | 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' ALIGN #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON 'INSINKERATOR' #STS-00 | |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finis | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, er manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain shed surfaces unblemished. | KITCHEN SINK 18GA SINGLEBOWL SSTL UNDERMOUNT31"x18" w/REAR DRAIN, SOUNDDEADENING3-1/2" SATIN SSTL STRAINERAND DRAINSINGLE HOLE/LEVER, PULL-OUTSPRAY KITCHEN FAUCET3/4 HP GARBAGE DISPOSALCONTROLLERPROVIDE w/ SINK FLANGE ANDSSTL STOPPERHOSE BIBBS, FREEZE-PROOFWATER HEATER, ELECTRIC TANK | 'MOEN' 9792 VALVE'MOEN' 1800-SERIES #G18180'MOEN' 1800-SERIES #G18180'MOEN' #22037'MOEN' #22037'MOEN' ALIGN #7565'INSINKERATOR' EVOLUTION COVER CONTROL PLUS'INSINKERATOR' SINKTOP SWITCH BUTTON'INSINKERATOR' #STS-00REF PLUMBING DRAWINGS | A0.22 |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finist | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, er manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain shed surfaces unblemished. | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER HOSE BIBBS, FREEZE-PROOF | 'MOEN' 9792 VALVE'MOEN' 1800-SERIES #G18180'MOEN' 1800-SERIES #G18180'MOEN' #22037'MOEN' #22037'MOEN' ALIGN #7565'INSINKERATOR' EVOLUTION COVER CONTROL PLUS'INSINKERATOR' SINKTOP SWITCH BUTTON'INSINKERATOR' #STS-00REF PLUMBING DRAWINGS | AD.22 Specifications |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finis 13 13 13 13 13 13 13 13 | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, er manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain shed surfaces unblemished. SPECIAL CONSTRUCTION Hot Tubs and Pools s, spas, and therapeutic pools to be installed in accordance | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER HOSE BIBBS, FREEZE-PROOF WATER HEATER, ELECTRIC TANK STYLE | 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' ALIGN #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON 'INSINKERATOR' #STS-00 REF PLUMBING DRAWINGS REF PLUMBING DRAWINGS | ADDATE SPECIFICATIONS |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finis 13 13 13 13 13 13 13 13 | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, er manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain shed surfaces unblemished. SPECIAL CONSTRUCTION Hot Tubs and Pools | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER HOSE BIBBS, FREEZE-PROOF WATER HEATER, ELECTRIC TANK STYLE WHOLE-HOUSE WATER FILTER 23 | 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' ALIGN #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON 'INSINKERATOR' #STS-00 REF PLUMBING DRAWINGS REF PLUMBING DRAWINGS REF PLUMBING DRAWINGS N.I.C BY OWNER | |
| MICROWAVE WASHER AND DRYER INSTALLATION: Ensure that all wo related accessories for a complete switches, etc. Install appliances per instructions, plumb, level, in true a dimensional tolerances. Leave finis 13 13 13 13 13 13 13 13 | FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR. BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1 24"W, DRAWER-STYLE, BELOW COUNTER, SSTL. BASIS OF DESIGN: 'BOSCH' HMD8451UC STACKED FRONT-LOADING WASHER AND DRYER BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW od blocking is in place and secured to framing. Provide all and functional installation including filters, lamps, er manufacturer's recommendations and installation lignment with one another and with adjacent work. Maintain shed surfaces unblemished. SPECIAL CONSTRUCTION Hot Tubs and Pools s, spas, and therapeutic pools to be installed in accordance ed spa. Provide GFCI outlets as required for heater, between 6 and 10 feet from inside walls of spa. All other | KITCHEN SINK 18GA SINGLE BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 3-1/2" SATIN SSTL STRAINER AND DRAIN SINGLE HOLE/LEVER, PULL-OUT SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL CONTROLLER PROVIDE w/ SINK FLANGE AND SSTL STOPPER HOSE BIBBS, FREEZE-PROOF WATER HEATER, ELECTRIC TANK STYLE WHOLE-HOUSE WATER FILTER 23 | 'MOEN' 9792 VALVE 'MOEN' 1800-SERIES #G18180 'MOEN' #22037 'MOEN' #22037 'MOEN' ALIGN #7565 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' SINKTOP SWITCH BUTTON 'INSINKERATOR' #STS-00 REF PLUMBING DRAWINGS REF PLUMBING DRAWINGS N.I.C BY OWNER HVAC | <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header> |

| 1 | FIRE SUPPRESION |
|------|--------------------|
| 1 13 | Wet Pipe Sprinkler |

2

LIGHTING:

All lighting to be retrofit LED-type (LED replacement A-type, or similar lamps) except where noted. See light fixture schedule for specific manufacturers and models. Provide spare lamps for exterior wall sconces at rate of two (2) ea per exterior fixture per unit. All lamps to be 3000K color temperature with CRI of 80 or better.

RECEPTACLES, OUTLETS:

'Lutron' Designer Style Claro, Satin finish, Color: 'Snow (SW)'. Exterior outlets to be manufacturer's standard gray color. Refer to electrical drawings for all other requirements.

| 28 | ELECTRONIC SAFETY AND Security |
|---|--|
| 28 30 | Electronic Detection and Alarm |
| Fire, Smoke, CO alarms: Refe | r to code study and electrical drawings. |
| 31 | EARTHWORK |
| 31 00 | Earthwork |
| conformance with local/region TERMITE CONTROL AND PRE application, or alternative met all utility penetrations through | filling in accordance w/ requirements of geotechnical report & in nal jurisdictional construction details. Refer to civil drawings. E-EMERGENT: Apply termite control (non-toxic chemical hods) throughout all disturbed soil areas, underslab, and around below-grade walls. Apply pre-emergent herbicide below all g grading activities, and prior to aggregate base installation. Excavation Support and Protection |
| Contractor shall provide temp excessive stresses and to hol | orary bracing, shoring, guying, or other means to avoid d soil, or structural elements in place during construction. le for obtaining all required engineering, drawings, and permits |
| 32 | EXTERIOR IMPROVEMENTS |
| FENCES AND GATES | NO WORK |
| | |

| EXISTING SITE WALLS | NU WURK |
|---------------------|--|
| LANDSCAPE AREA | REF. LANDSCAPE |
| | Provide restorative grading and re-vegetation of the area impacted by construction will be required. Planting (by others) to follow Summit Powder Mountatin Design Guidelines, Section G and Appendix A thru F. |

| 33 | UTILITIES | | | | | | | |
|-------------|-----------|--|--|--|--|------|---|--|
| D () | | | | | | | • | |

Refer to civil drawings for all site utility connections, materials, and installation requirements.

All vaults and in-grade boxes within sidewalk areas to be provided with traffic-rated concrete lids; consolidate multiple meters, shut-off valves, etc. under a single lid where possible - refer to civil drawings for additional requirements.

Refer to plumbing drawings for perimeter foundation drainage system. Also provide full sub-slab drainage system, see Section 22 - Plumbing. Connect all to storm drain system - ref civil for continuation.

OWNER UPGRADE PACKAGE

The documents describe base-bid conditions for finishes, feature, and equipment. Owner upgrade package is available for each individual lot. Component upgrades within this package are identified as "upgrade" for bidding purposes and may be selected by an owner upon final pricing.

Specific plan options for lots 124 and 133 are indicated where available on the respective plan sheets for these lots, and are to be priced for possible owner selection prior to construction.

The following items are available to any of the lots, and are all included as part of this comprehensive (not piecemeal) upgrade.

| 11 30 | Residential Equipm |
|------------|--------------------------------------|
| , , | equipment and services necessary to |
| available. | appliances. Provide Energy Star comp |

| COOKTOP AND DOWNDRAFT VENT | 36"W INDUCTION COOKTOP, TELESCOPING DOWNDRAFT TO TERMINATE AT EXTERIOR |
|--|---|
| | BASIS OF DESIGN: 'MIELE' KN DA6490 36" DOWNDRAFT VE |
| OVEN | ELECTRIC 30" WALL OVEN, S COUNTER. PROVIDE FILLER CABINETRY AS REQUIRED. |
| | BASIS OF DESIGN: 'MIELE' HE UNDERCOUNTER MOUNT WA |
| DISHWASHER | BUILT-IN 24" UNDERCOUNTE STAINLESS STEEL TUB, WITH CABINETRY. ENERGY STAR. |
| | Basis of Design: 'Miele' Ge Dishwasher |
| REFRIGERATOR, TYPICAL UNIT | FULLY INTEGRATED PANEL-F / FREEZER w/FILTRATION & I ENERGY STAR. |
| | BASIS OF DESIGN: 'MIELE' KF FREEZER |
| MICROWAVE | 24"W, DRAWER-STYLE, BELO |
| | BASIS OF DESIGN: 'MIELE' M MICROWAVE MOUNT WITH T |
| 22 40 | Plumbing Fixtures - |
| Refer to base bid condition for gene equipment, including water heater, g a complete installation. | |
| TOILET SEAT AND COVER | 'DURAVIT' <i>HAPPY-D.2</i> FLOOR BACK-TO-WALL MODEL #21 IN-WALL UNIT #109304 w/ S #115770 'DURAVIT' #006989 |
| LAV - VESSEL SINK - TYP | 'VOLA' WS UNIT 60 |
| LAV - VESSEL SINK - MSTR BATH | |
| | |

| SINGLE LEVER FAUCET, WALL-MOUNT | 'VOLA' <i>911M</i> , 1.2 GPM. |
|---|---|
| POWDER ROOM LAVATORY | 'VOLA' WS <i>NICE</i> 25 |
| TRAP | POLISHED CHROME BOTTLE 1 |
| POWDER ROOM FAUCET | 'VOLA' <i>HV1M+30</i> |
| SHOWER HEAD, THERMOSTATIC VALVE/TRIM, AND HAND SHOWER | 'VOLA' <i>2471-061</i> |
| FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET | 'INFINITY DRAIN' #FFAS-25 |
| CLAMP DOWN ASSEMBLY | 2" w/ DRAINAGE CHANNELS, ' EQUIVALENT (REF. PLBG FOR |
| | <u>NOTE</u> : Bottom of shower head above finished elevation of sho |
| BATHTUB - FREESTANDING | 'VICTORIA AND ALBERT' <i>VETR</i> K51 OVERFLOW AND STOPPE |
| TUB FILLER | 'VOLA' <i>2411C-071</i> FAUCET, DI SHOWER w/ BUILT-IN THERM |
| KITCHEN SINK PORCELAIN BOWL UNDERMOUNT 28"x20" w/REAR DRAIN, SOUND DEADENING | 'FRANKE' <i>MANOR HOUSE #</i> MI |
| 3-1/2" SATIN SSTL STRAINER AND DRAIN | -TO MATCH FAUCET |
| SINGLE LEVER KITCHEN FAUCET | 'VOLA' <i>590H</i> |
| | |

| KITCHEN SPRAY HEAD | 'VOLA' <i>500MT1</i> | |
|-----------------------------------|-------------------------------------|--|
| 09 30 | Tile - UPGRADE | |
| Refer to base bid condition for a | neral material and installation rea | |

Reter to base bid condition for general material and installation requirements, and for all other accessories as required for a complete installation.

FLOORS:

'WATERWORKS' KEYSTONE 6"x12" ARAN GRAY IN HONED FINISH, THINSET OR MORTAR SET - REF DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS BY LOCATION/USE.

WALLS (BATHROOMS ONLY): 'WATERWORKS' WATERCOLORS 3"x6" SEA SALT IN SANDED FINISH, THINSET w/ WHITE MODIFIED MORTAR o/ C.B.U.'s.

09 64

Residential Equipment - UPGRADE

o install owner-provided pliant appliances where

P, SSTL & GLASS, w/ T VENT SYSTEM (EXHAUST OR SOFFIT).

KM5860-36" WITH 'MIELE' VENT

, STAINLESS STEEL, UNDER R PANELS TO MATCH

H6680BP 30" WALL OVEN

TER DISHWASHER, TH PANEL TO MATCH К.

GEN6000 DIAMOND 24"

-READY 36" REFRIGERATOR & ICE MAKER, SSTL.

KF1930Vi 36" BOTTOM

LOW COUNTER, SSTL.

M6260TC 24" INTEGRATED TRIM KIT

- UPGRADE

and for standard fixtures and r accessories as required for

OR STANDING 213909 w/ 'GEBERIT' SIGMA FLUSH PLATE

TRAP

, 'INFIITY DRAIN' CD_22, OR R MAT'L REQ'S)

ad to be not less than 80" ower floor.

RALLA VET-N-SW-OF w/

DIVERTER, AND HAND IOSTATIC MIXING VALVE MHK110-2 FIRECLAY WHITE

Refer to base bid condition for general material and installation requirements, and for all other accessories as required for a complete installation.

FLOORING: 'CARLISE WIDEPLANK FLOORS' CASUAL COLLECTION; 8" wide unfinished t&g engineered wood flooring. Species: White Oak, 'Weathered Windmill'. Finish: Site finish with Polyurethane UV resistant top coat in Extra Matte Sheen. Provide w/ matching square-edged stair nosing, treads and risers. 09 68

Carpet - UPGRADE

Refer to base bid condition for general material and installation requirements, and for all other accessories as required for a complete installation. CARPET

'KARASTAN' DONNINGTON PATTERNED LOOP PILE, 100% NEW ZEALAND WOOL AND WOOL BLENDS, w/ SCOTCHGARD; COLOR TO BE SELECTED BY OWNER W/ 'J MISH', NATURAL PERFORMANCE WOOL CUSHION 24 OZ. CARPET PAD.

architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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OWNER orr powdercat th development, llc 11180 sunrise valley drive, ste 300 reston, va 20191 t (703) 289-2125

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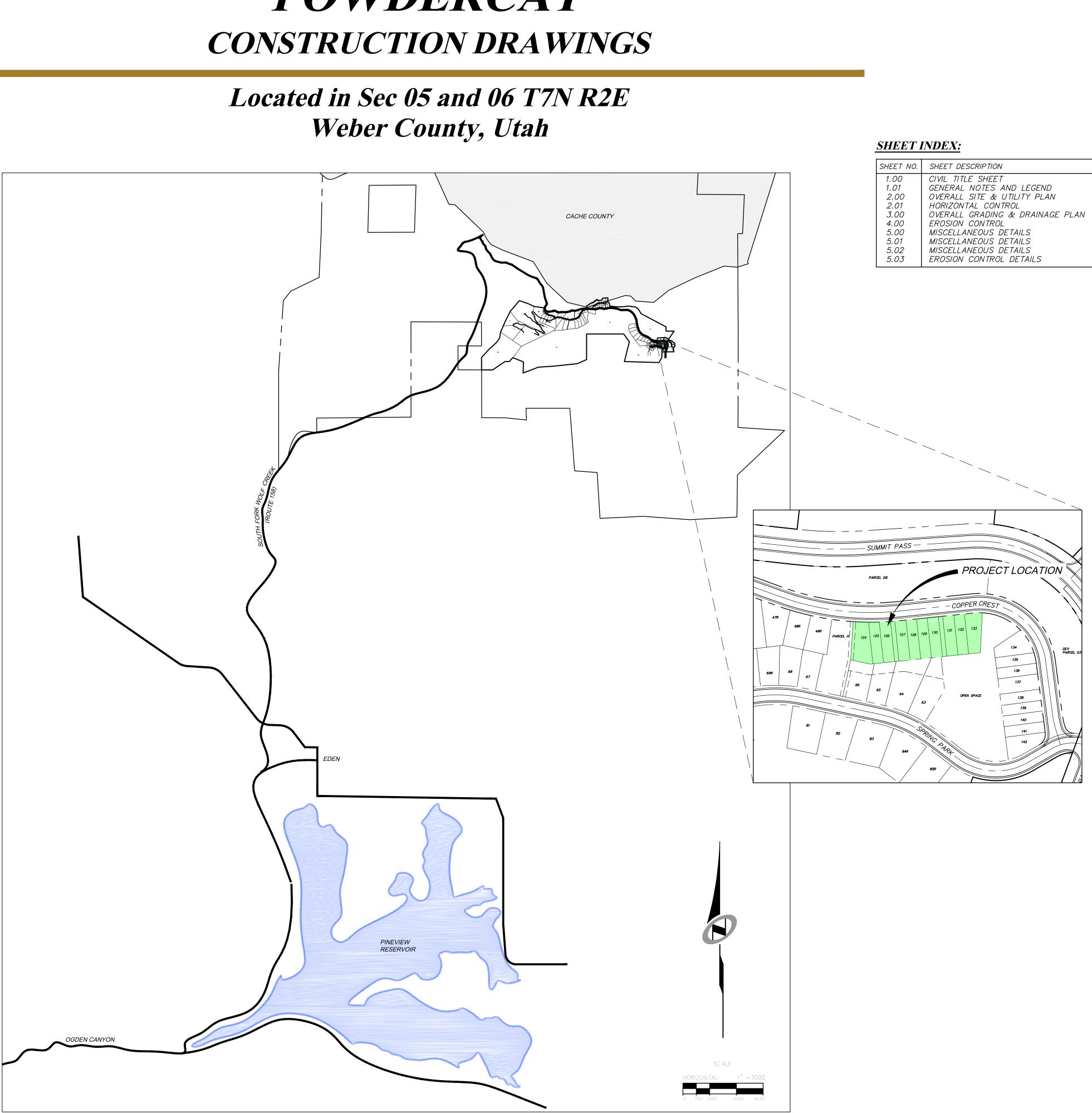
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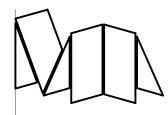
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POWDERCAT



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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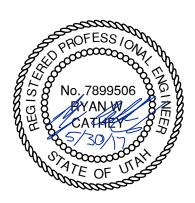
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1'=3000'

GENERAL NOTES

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- 2. CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION. SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
- 3. TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT UDOT TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER. 5. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION
- REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- 6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE. 7. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST
- RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES. 8. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- 10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
- 11. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
- 12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND. 13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND
- SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER. 14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS,
- BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. 16. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
- 17. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATION OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF HIS EXAMINATION. A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE. AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR. OR A SUPPLEMENT TO. THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER- OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
- 18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER. POWER. SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- 19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
- 20. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
- 21. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- 23. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- 24. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- 25. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- 26. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

GENERAL NOTES CONT.

- 27. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE
- CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS. 28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO
- FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING. 29. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER
- PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 -TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
- 30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.

UTILITY NOTES

- SERVICE. GAS SERVICE. CABLE. POWER. INTERNET.
- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED
- INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT. CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST
- ACCORDANCE WITH THE REQUIRED PROCEDURES. UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF
- CONSTRUCTION OPERATIONS AT HIS EXPENSE. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
- OR MANHOLE.
- SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
- 8. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX. 9. SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL
- AFTER THE FINAL BOND RELEASE INSPECTION. 10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS. 11. EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED.
- 12. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND WATER ENTERING THE TRENCH EXCAVATION.
- 13. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS. 14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY
- UTILITY LINES. 15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
- PIPE BELOW FINISHED GRADE. 18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF
- LINES SHALL BE A MINIMUM OF 18" ABOVE SEWER LINES.
- AND TEES. 20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- 21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- ACCORDANCE WITH THE REGULATORY AGENCY STANDARD SPECIFICATIONS. 23. UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO
- THE TRENCH 24. WATER AND SEWER UTILITIES TO BE INSTALLED PER POWDER MOUNTAIN WATER & SEWER DISTRICT REQUIREMENTS.

SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM. UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND

TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE

EXCAVATED TO A DEPTH OF 4' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF

CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE

ON-SITE SURVEYS (BY OTHERS). PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE. IN THE FIELD. THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-662-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL

UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES

PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN

CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING

6. CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX

CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-

ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS.

DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL

16. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER

OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION). 17. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 60" OF COVER TO TOP OF

10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES. WATER AND SEWER LINES SHALL NOT BE IN THE SAME TRENCH. IN CROSSING LOCATIONS WATER

19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS

22. THE CONTRACTOR SHALL NOTIFY NOLTE ASSOCIATES, INC. IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN

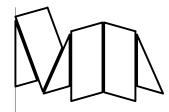
| LEGEND: | | |
|-------------------|---|---|
| SYMBOL / LINETYPE | DESCRIPTION | DETAIL |
| | LIMITS OF DISTURBANCE WATER LATERAL CONNECTION WATER METER WATER CAP/STUB 4"ø SDR-35 PVC SEWER PIPE | N/A APWA PLAN NO. 521 N/A APWA PLAN NO. 381, 382 |
| 8"SS | 8"ø SDR-35 PVC SEWER PIPE | APWA PLAN NO. 381, 382 |
| S | 4'ø SANITARY SEWER MANHOLE | APWA PLAN NO. 411 |
| 6"SD | SANITARY SEWER CAP/STUB 6"ø HDPE STORM DRAIN PIPE ELECTRICAL CONDUIT | N/A APWA PLAN NO. 381, 382 N/A |
| 8"W | ELECTRICAL PULL BOX EXISTING 8"Ø WATER PIPE EXISTING WATER LATERAL | ÁPWA PLAN NO. 315 |
| SS | EXISTING WATER VALVE EXISTING WATER LATERAL EXISTING WATER LATERAL | |
| (S) | EXISTING 4'Ø SANITARY SEWER MANHOLE | |
| 15"SD | EXISTING 15"Ø STORM DRAIN PIPE | |
| (D) | EXISTING 4'Ø STORM DRAIN MANHOLE | |
| | EXISTING STORM DRAIN CATCH BASIN | |
| P(1)4"P | EXISTING ELECTRICAL CONDUIT | |
| | EXISTING ELECTRICAL PULL BOX | |
| | EXISTING ELECTRICAL TRANSFORMER | |
| COM (1)4"COM | EXISTING COMMUNICATIONS CONDUIT | |
| | EXISTING COMMUNICATIONS PULL BOX | |

NOTE: LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN PLAN SET.

ABBREVIATION

| | ABBREVIATI | <u>UN :</u> | |
|-----------|-----------------------------------|-------------|------------------------------------|
| APWA | AMERICAN PUBLIC WORKS ASSOCIATION | MAX | MAXIMUM |
| IC | ASPHALTIC CONCRETE | МН | MANHOLE |
| e | AND | MIN | MINIMUM |
| PPR. | APPROXIMATELY | MSE | MECHANICALLY STABILIZED EARTH |
| IRV | AIR RELEASE VALVE | N | NORTH |
| Ð | AT | NIC | NOT IN CONTRACT |
| BDRY | BOUNDARY | NTS | NOT TO SCALE |
| BRG | BEARING | ОС | ON CENTER |
| RS | BOTTOM OF STAIR/STEP | ОН | OVERHEAD |
| BVC | BEGIN VERTICAL CURVE | PC | POINT OF CURVATURE |
| 3W | BOTTOM OF WALL | PI | POINT OF INTERSECTION |
| B | CATCH BASIN | PL | PROPERTY LINE |
| CLOR Q | CENTERLINE | POC | POINT ON CURVE |
| CMP | CORRUGATED METAL PIPE | PP | POWER POLE |
| COB | CLEANOUT BOX | PRC | POINT OF REVERSE CURVE |
| CONC | CONCRETE | PRV | PRESSURE REDUCING VALVE |
| DET | DETAIL | PSI | POUNDS PER SQUARE INCH |
| DIA | DIAMETER | PT | POINT OF TANGENT |
|)IP | DUCTILE IRON PIPE | PVC | POLYVINYL CHLORIDE |
| DIST | DISTRICT | PU&DE | PUBLIC UTILITY & DRAINAGE EASEMENT |
| DWG | DRAWING | PUE | PUBLIC UTILITY EASEMENT |
| - | ENTRY | PVI | POINT OF VERTICAL INTERSECTION |
| Ā | EACH | PVT | POINT OF VERTICAL TANGENT |
| TC | EDGE OF CONCRETE | R | RADIUS |
| G | EXISTING GRADE | RCP | REINFORCED CONCRETE PIPE |
| P | EDGE OF PAVEMENT | REF | REFERENCE |
| R | EDGE OF ROAD | ROW | RIGHT-OF-WAY |
| VC | END OF VERTICAL CURVE | SS | SANITARY SEWER |
| LEV | ELEVATION | SD | STORM DRAIN |
| SMT | EASEMENT | SW | SIDEWALK |
| X | EXISTING | SCH | SCHEDULE |
| F | FINISH FLOOR | SEC. | SECTION |
| G | FINISH GRADE | SF | SQUARE FEET |
| Ή | FIRE HYDRANT | STA | STATION |
| 72 | FLOWLINE | STD | STANDARD |
| T | FEET | TBC | TOP BACK OF CURB |
| GAR | GARAGE | TC | TOP OF CONCRETE |
| <i>BB</i> | GRADE BREAK | TEMP | TEMPORARY |
| ŀΡ | HIGH POINT | TG | TOP OF GRATE |
| IORIZ | HORIZONTAL | TS | TOP OF STAIR/STEP |
| IYD | HYDRANT | ΤW | TOP OF WALL |
| D | INSIDE DIAMETER | TYP | TYPICAL |
| Ē | INVERT ELEVATION | VAR | VARIES |
| NV | INVERT | VERT | VERTICAL |
| RR | IRRIGATION | W/ | WITH |
| | LENGTH | | |
| .F | LINEAR FEET | | |

LINEAR FEET IP LOW POINT



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sma project no. 16-101

sma project name POWDERCAT

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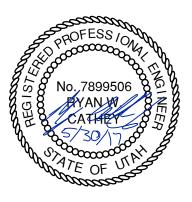
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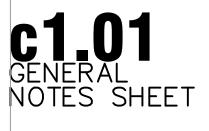
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scale

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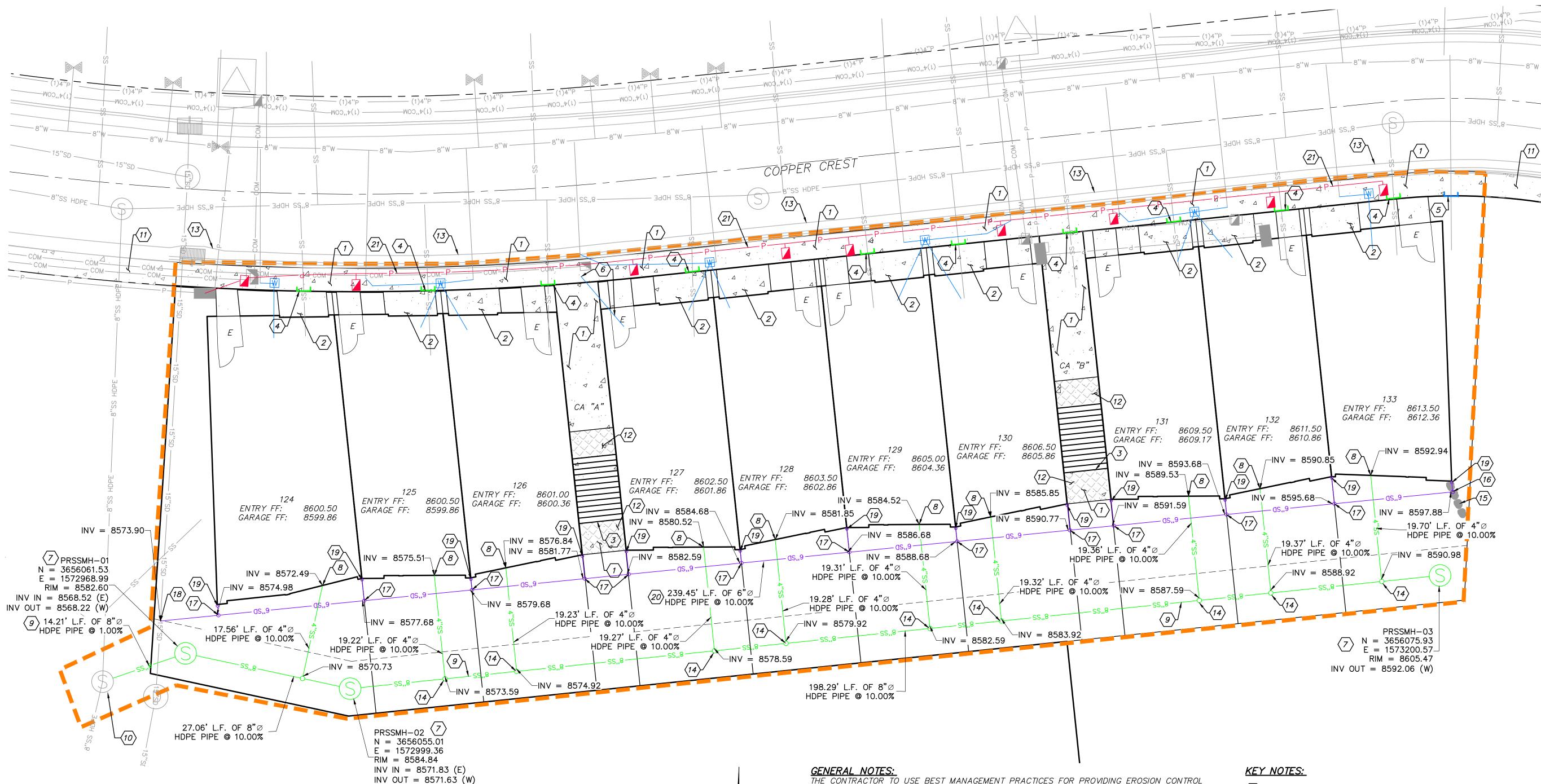
WEBER COUNTY 2380 WASHINGTON BLVD. #240 OGDEN, UT 84401 (801) 399–8374

ROCKY MOUNTIAN POWER

KARL SEWELL 1438 WEST 2550 SOUTH OGDEN, UT 84401 (801) 629–4310

POWDER MOUNTAIN WATER & SEWER DISTRICT

PO BOX 270 EDEN, UT 84310 (801) 745–0912



THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY WEBER COUNTY. ALSO, INSPECTORS WILL HAVE THE RIGHT TO REQUEST CHANGES TO THE FACILITIES AS NEEDED.

DUST MUST BE KEPT TO A MINIMUM. CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTACT POWDER MOUNTAIN WATER & SEWER IMPROVEMENT DISTRICT TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY.

ENSURE ALL GRADING SLOPES AWAY FROM STRUCTURE AT 5% FOR A MINIMUM OF 10' PER IRC R401.3

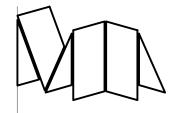
<u>UTILITIES:</u>

ENSURE MINIMUM BURIED DEPTH PER BUILDING CODE FOR ALL BURIED UTILITIES.

IMPROVEMENTS, INCLUDING LANDSCAPING, SHALL NOT INTERFERE WITH THE DRAINAGE CULVERT, RIP RAP, AND DRAINAGE PATTERN ASSOCIATED WITH ANY DRAINAGE EASEMENT.



- $\langle 1 \rangle$ construct 6" thick sidewalk per APWA plan no. 231
- $\langle 2 \rangle$ CONSTRUCT VEHICLE RATED CONCRETE DRIVEWAY.
- $\langle 3 \rangle$ CONSTRUCT CONCRETE STAIRS. SEE ARCHITECTURAL PLANS FOR DETAILS.
- $\langle 4
 angle$ CAP AND ABANDON IN PLACE EXISTING SANITARY SEWER LATERAL.
- $\langle 5
 angle$ CAP AND ABANDON IN PLACE EXISTING WATER LATERAL.
- $\langle 6 \rangle$ INSTALL BEND IN EXISTING WATER LINE TO ACCOMMODATE UNIT.
- $\langle 7 \rangle$ install 4'ø sanitary sewer manhole per apwa standard plan no. 411.
- $\langle 8 \rangle$ INSTALL 4"ø SANITARY SEWER LATERAL PER APWA STANDARD PLAN NO. 431 MODIFIED.
- (9) INSTALL 8"Ø HDPE PIPE. TRENCHING AND BACKFILL PER APWA STANDARD PLAN NO. 381 AND 382.
- (10) CONNECT TO EXISTING SANITARY SEWER MANHOLE.
- $\langle 11 \rangle$ FUTURE SIDEWALK TO BE INSTALLED BY OTHERS.
- $\langle 12 \rangle$ Landing. Slope to not exceed 2.00% max in any direction. See grading plan. (13) PROTECT IN PLACE EXISTING IMPROVEMENTS. IF DAMAGED, REPLACE PER DETAILS ON SHEETS C5.00 AND C5.01.
- $\langle 14 \rangle$ wye connect to sanitary sewer pipe.
- (15) ROCK RETAINED SLOPE LESS THAN 48" VERTICAL HEIGHT.
- (16) 6"ø 90° HDPE PIPE BEND.
- $\langle 17 \rangle$ 6"x6"x6" HDPE TEE.
- (18) CONNECT TO EXISTING STORM DRAIN PIPE.
- $\langle 19 \rangle$ ROOF DRAIN DOWNSPOUT CONNECTION. SEE MECHANICAL PLANS FOR DETAIL.
- (20) INSTALL 6" HDPE PIPE. TRENCHING AND BACKFILL PER APWA STANDARD PLAN NO. 381 AND 382.
- (21) INSTALL ELECTRICAL CONDUITS AND PULL BOXES PER ELECTRICAL PLANS. CONTRACTOR TO CONSTRUCTION.



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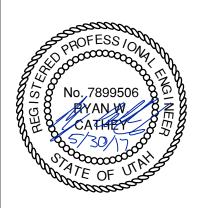
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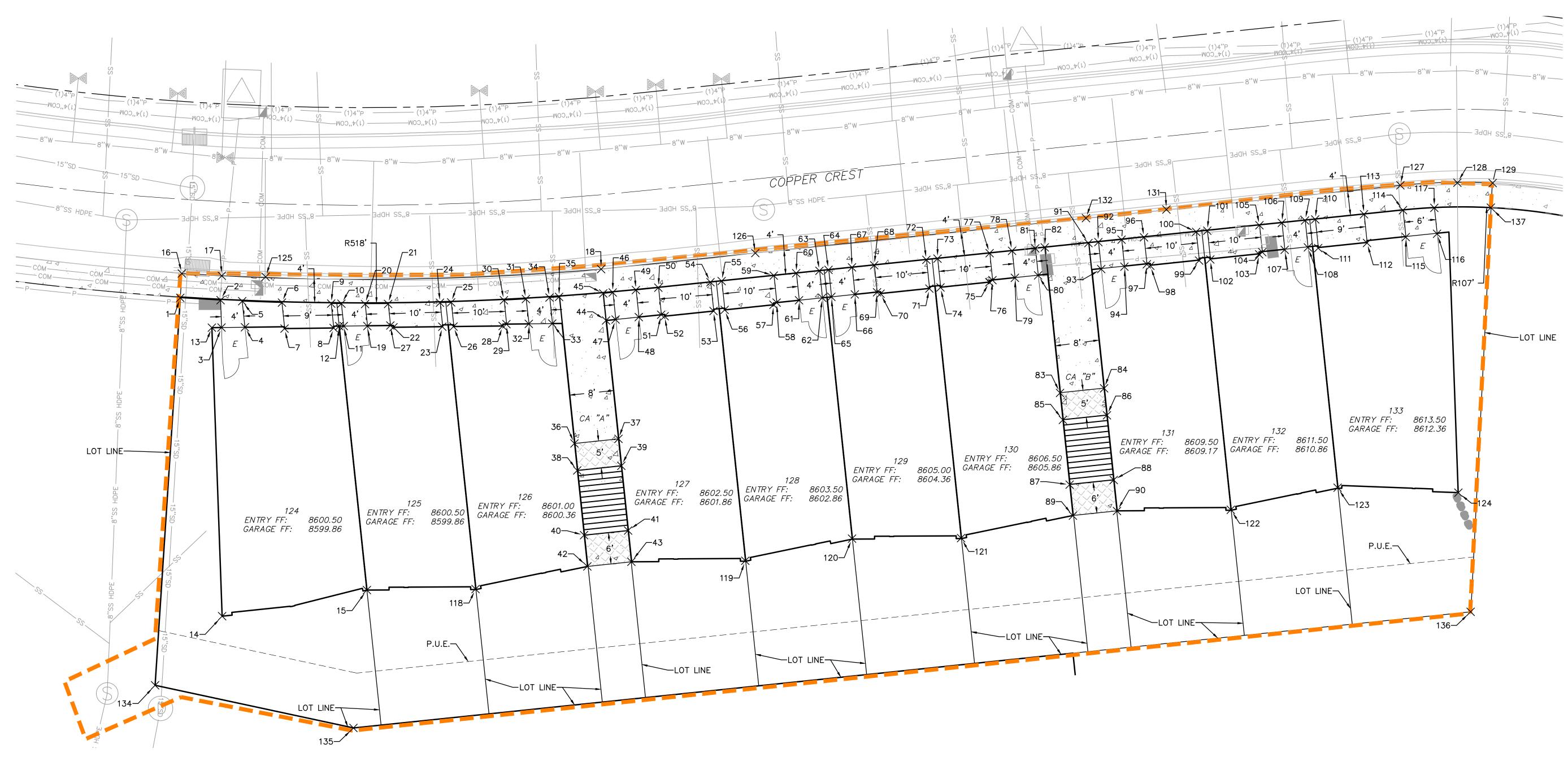
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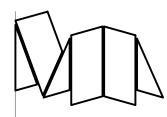
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| Point Table | | Point Table Point Table | | | Point Table | | Point Table | | | Point Table | | | | |
|-------------|------------|-------------------------|---------|------------|-------------|---------|-------------|------------|---------|-------------|------------|---------|------------|------------|
| Point # | Northing | Easting | Point # | Northing | Easting | Point # | Northing | Easting | Point # | Northing | Easting | Point # | Northing | Easting |
| 1 | 3656129.25 | 1572967.12 | 29 | 3656124.41 | 1573027.24 | 57 | 3656127.98 | 1573076.48 | 85 | 3656106.75 | 1573129.83 | 113 | 3656144.66 | 1573185.35 |
| 2 | 3656128.82 | 1572974.55 | 30 | 3656128.82 | 1573026.78 | 58 | 3656128.38 | 1573077.06 | 86 | 3656107.60 | 1573137.95 | 114 | 3656145.41 | 1573192.53 |
| 3 | 3656123.78 | 1572974.73 | 31 | 3656129.04 | 1573030.84 | 59 | 3656133.36 | 1573076.53 | 87 | 3656094.81 | 1573131.08 | 115 | 3656140.46 | 1573193.04 |
| 4 | 3656123.83 | 1572979.04 | 32 | 3656124.46 | 1573031.37 | 60 | 3656133.79 | 1573080.67 | 88 | 3656095.67 | 1573139.20 | 116 | 3656141.06 | 1573198.81 |
| 5 | 3656128.64 | 1572978.54 | 33 | 3656124.51 | 1573035.69 | 61 | 3656128.81 | 1573081.19 | 89 | 3656089.09 | 1573131.68 | 117 | 3656145.84 | 1573198.30 |
| 6 | 3656128.38 | 1572985.87 | 34 | 3656129.31 | 1573035.19 | 62 | 3656129.26 | 1573085.47 | 90 | 3656089.95 | 1573139.81 | 118 | 3656075.56 | 1573021.56 |
| 7 | 3656123.59 | 1572986.34 | 35 | 3656129.43 | 1573036.95 | 63 | 3656134.24 | 1573084.95 | 91 | 3656139.34 | 1573134.54 | 119 | 3656080.78 | 1573071.28 |
| 8 | 3656123.70 | 1572995.39 | 36 | 3656102.40 | 1573039.78 | 64 | 3656134.42 | 1573086.62 | 92 | 3656139.53 | 1573136.37 | 120 | 3656084.86 | 1573090.97 |
| 9 | 3656128.19 | 1572994.95 | 37 | 3656103.26 | 1573047.91 | 65 | 3656129.44 | 1573087.15 | 93 | 3656134.56 | 1573136.90 | 121 | 3656084.96 | 1573111.06 |
| 10 | 3656128.18 | 1572996.83 | 38 | 3656097.43 | 1573040.31 | 66 | 3656129.89 | 1573091.48 | 94 | 3656135.01 | 1573141.18 | 122 | 3656090.18 | 1573160.79 |
| 11 | 3656124.05 | 1572997.26 | 39 | 3656098.28 | 1573048.43 | 67 | 3656134.87 | 1573090.96 | 95 | 3656139.98 | 1573140.65 | 123 | 3656094.25 | 1573180.47 |
| 12 | 3656124.04 | 1572996.42 | 40 | 3656085.50 | 1573041.56 | 68 | 3656135.26 | 1573095.05 | 96 | 3656140.41 | 1573144.79 | 124 | 3656093.33 | 1573202.74 |
| 13 | 3656123.76 | 1572972.95 | 41 | 3656086.35 | 1573049.68 | 69 | 3656130.28 | 1573095.57 | 97 | 3656135.44 | 1573145.31 | 125 | 3656133.13 | 1572982.85 |
| 14 | 3656070.56 | 1572974.84 | 42 | 3656079.73 | 1573042.16 | 70 | 3656130.01 | 1573096.22 | 98 | 3656135.17 | 1573145.95 | 126 | 3656137.51 | 1573073.13 |
| 15 | 3656075.37 | 1573001.53 | 43 | 3656080.59 | 1573050.29 | 71 | 3656130.96 | 1573105.22 | 99 | 3656136.12 | 1573154.96 | 127 | 3656150.00 | 1573192.05 |
| 16 | 3656133.74 | 1572967.42 | 44 | 3656125.08 | 1573045.62 | 72 | 3656136.27 | 1573104.66 | 100 | 3656141.42 | 1573154.40 | 128 | 3656150.48 | 1573202.56 |
| 17 | 3656133.32 | 1572974.78 | 45 | 3656130.06 | 1573045.09 | 73 | 3656136.48 | 1573106.71 | 101 | 3656141.63 | 1573156.45 | 129 | 3656150.42 | 1573209.07 |
| 18 | 3656134.55 | 1573044.71 | 46 | 3656130.25 | 1573046.84 | 74 | 3656131.17 | 1573107.27 | 102 | 3656136.33 | 1573157.01 | 131 | 3656145.54 | 1573148.92 |
| 19 | 3656124.05 | 1573001.61 | 47 | 3656125.26 | 1573047.37 | 75 | 3656132.12 | 1573116.27 | 103 | 3656137.28 | 1573166.01 | 132 | 3656143.95 | 1573134.09 |
| 20 | 3656128.11 | 1573001.18 | 48 | 3656125.71 | 1573051.64 | 76 | 3656132.51 | 1573116.85 | 104 | 3656137.68 | 1573166.59 | 134 | 3656057.82 | 1572962.48 |
| 21 | 3656128.13 | 1573005.44 | 49 | 3656130.70 | 1573051.12 | 77 | 3656137.49 | 1573116.33 | 105 | 3656142.64 | 1573166.07 | 135 | 3656049.95 | 1572999.04 |
| 22 | 3656123.83 | 1573006.42 | 50 | 3656131.13 | 1573055.25 | 78 | 3656137.92 | 1573120.46 | 106 | 3656143.08 | 1573170.20 | 136 | 3656071.37 | 1573205.00 |
| 23 | 3656123.93 | 1573015.43 | 51 | 3656126.14 | 1573055.78 | 79 | 3656132.95 | 1573120.98 | 107 | 3656138.11 | 1573170.72 | 137 | 3656145.89 | 1573208.73 |
| 24 | 3656128.36 | 1573015.00 | 52 | 3656125.88 | 1573056.42 | 80 | 3656133.40 | 1573125.26 | 108 | 3656138.56 | 1573175.00 | | | |
| 25 | 3656128.42 | 1573017.05 | 53 | 3656126.82 | 1573065.43 | 81 | 3656138.37 | 1573124.74 | 109 | 3656143.52 | 1573174.48 | | | |
| 26 | 3656123.96 | 1573017.49 | 54 | 3656132.14 | 1573064.87 | 82 | 3656138.55 | 1573126.49 | 110 | 3656143.72 | 1573176.35 | | | |
| 27 | 3656124.15 | 1573005.84 | 55 | 3656132.35 | 1573066.92 | 83 | 3656111.72 | 1573129.31 | 111 | 3656138.43 | 1573176.90 | | | |
| 28 | 3656124.07 | 1573026.54 | 56 | 3656127.04 | 1573067.48 | 84 | 3656112.57 | 1573137.43 | 112 | 3656139.37 | 1573185.90 | | | |



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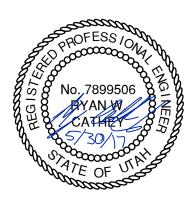
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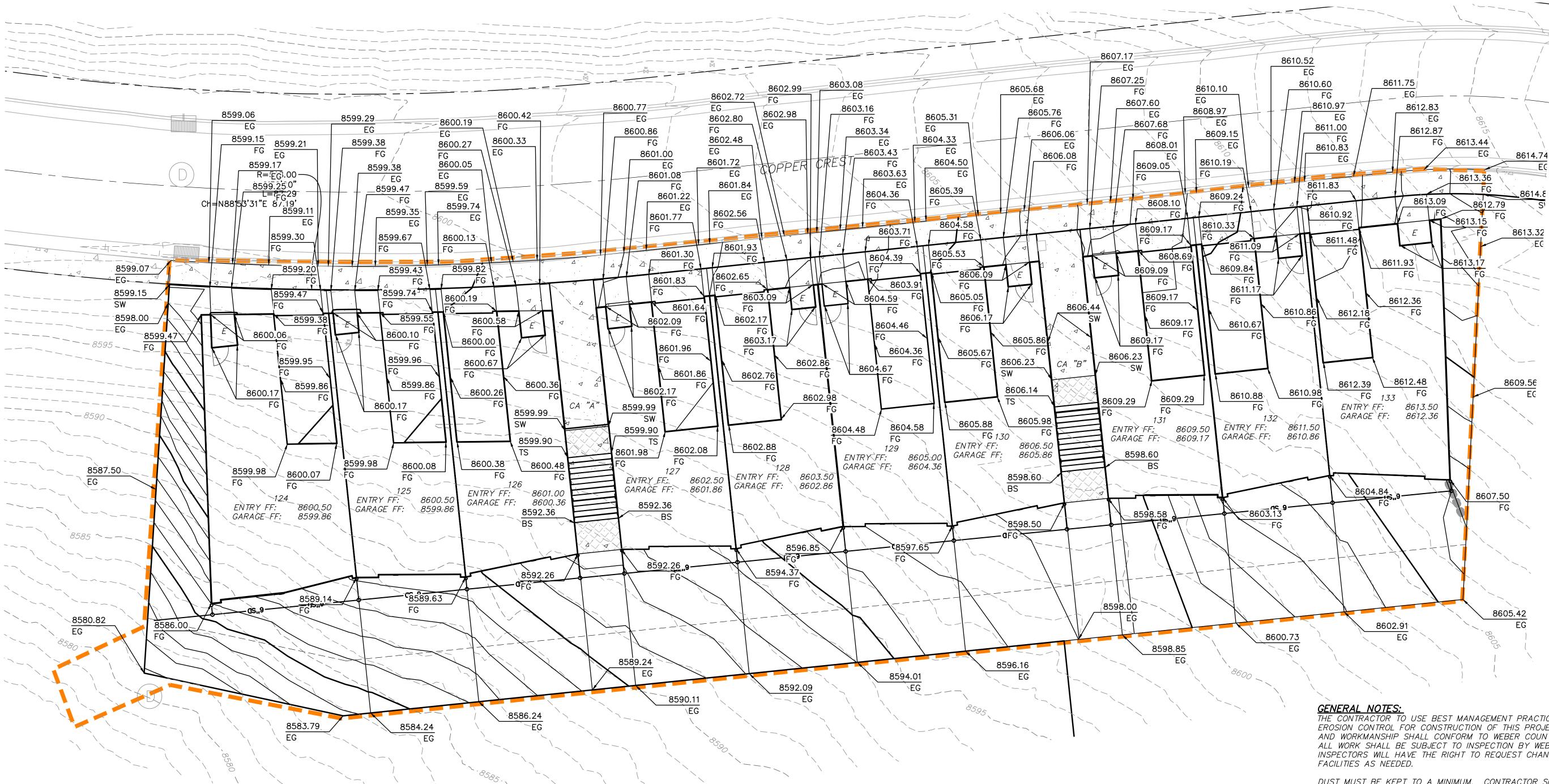




1"=10' scale

SUBMITTAL SET phase / rev 2017.05.30





THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY WEBER COUNTY. ALSO, INSPECTORS WILL HAVE THE RIGHT TO REQUEST CHANGES TO THE

DUST MUST BE KEPT TO A MINIMUM. CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTACT POWDER MOUNTAIN WATER & SEWER IMPROVEMENT DISTRICT TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY.

ENSURE ALL GRADING SLOPES AWAY FROM STRUCTURE AT 5% FOR A MINIMUM OF 10' PER IRC R401.3

<u>UTILITIES:</u>

ENSURE MINIMUM BURIED DEPTH PER BUILDING CODE FOR ALL BURIED UTILITIES.

IMPROVEMENTS, INCLUDING LANDSCAPING, SHALL NOT INTERFERE WITH THE DRAINAGE CULVERT, RIP RAP, AND DRAINAGE PATTERN ASSOCIATED WITH THE DRAINAGE EASEMENT.

<u>LEGEND</u>

| BW | BOTTOM OF WALL |
|----|------------------|
| ΤW | TOP OF WALL |
| EG | EXISTING GROUND |
| FL | FLOWLINE |
| FT | FEET |
| LF | LINEAR FEET |
| LP | LOW POINT |
| FG | FINISHED GRADE |
| BS | BOTTOM OF STAIRS |
| TS | TOP OF STAIRS |
| SW | SIDEWALK |
| | |

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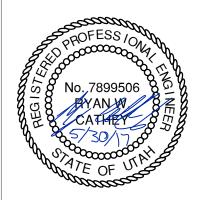
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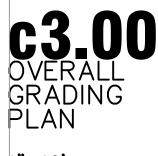
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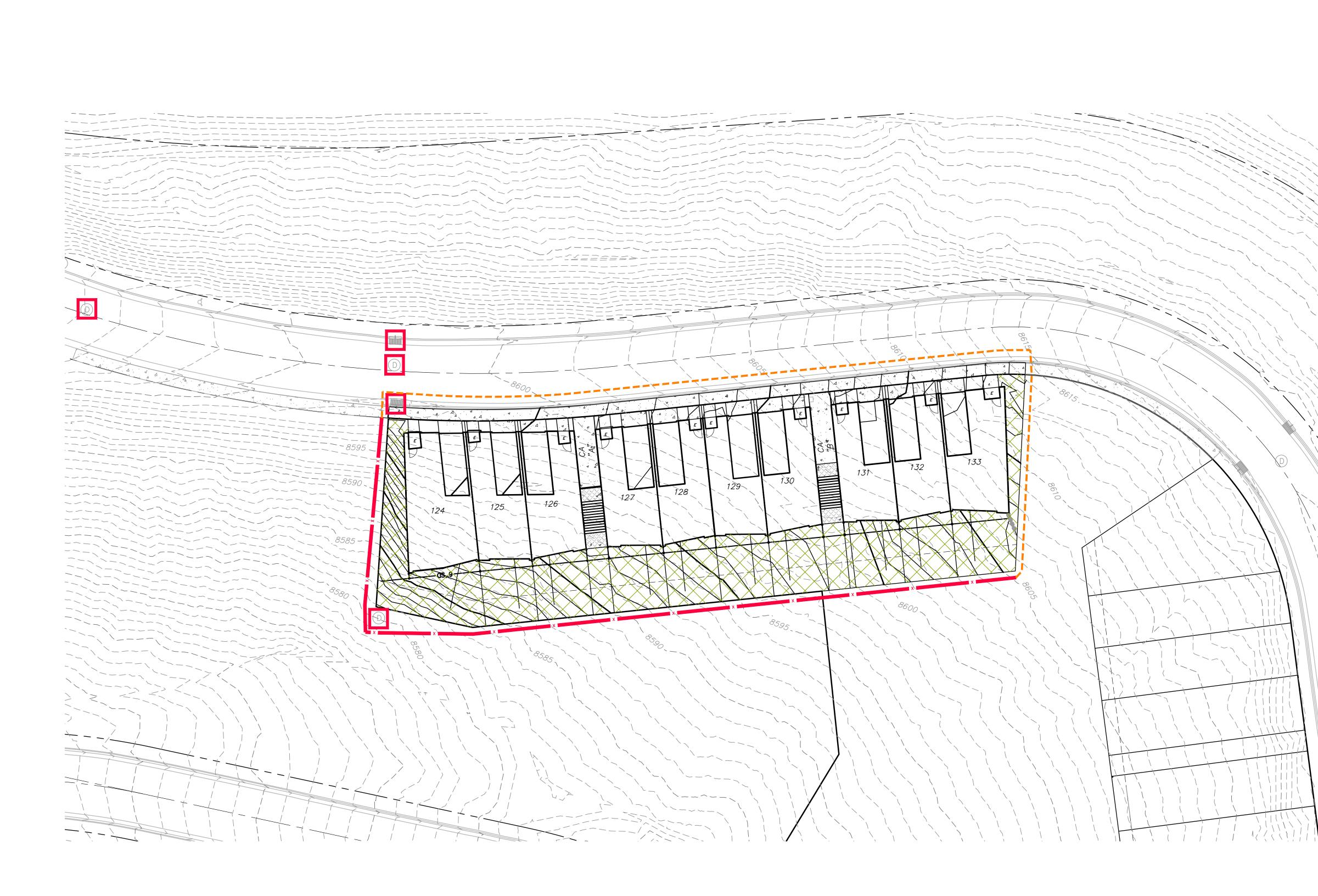
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1"=10' scale



EROSION CONTROL GENERAL NOTES:

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTY. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DIVISION OF WATER QUALITY.

MAINTENANCE:

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL VEGETATION IS RE-ESTABLISHED.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

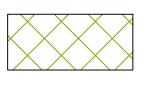
EXPOSED SLOPES:

ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED
- B) TRACKING STRAW PERPENDICULAR TO SLOPES C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:



HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION. AREAS RECEIVING SEEDING FOR NATURAL REVEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SPECIFICATIONS. INSTALL NORTH AMERICAN GREEN P300 EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 1.5:1.



INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN. SEE EROSION CONTROL DETAILS SHEET 5.05

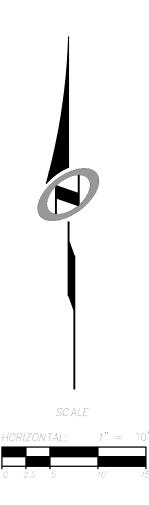


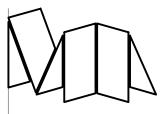
INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN. SEE EROSION CONTROL DETAILS SHEET 5.05 INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF PROJECT PRIOR TO GRADING.

SEED MIXTURE FOR REVEGITATION
 40% MOUNTAIN BROME (BROMUS MARGINATUS)
 25% SLENDER WHEATGRASS (ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS)
 5% SHEEP FESCUE (FESTUCA OVINA SPP. DURIUSCULA)
 5% ALPINE BLUEGRASS (POA ALPINE)

25% THICKSPIKE WHEATGRASS (ELYMUS LANCEOLATUS SSP. LANCEOLATUS)

SEEDING RATE IS 40 POUNDS PER ACRE.





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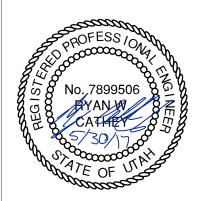
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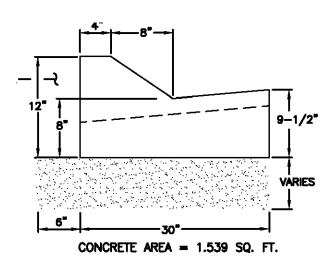
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1"=20' scale

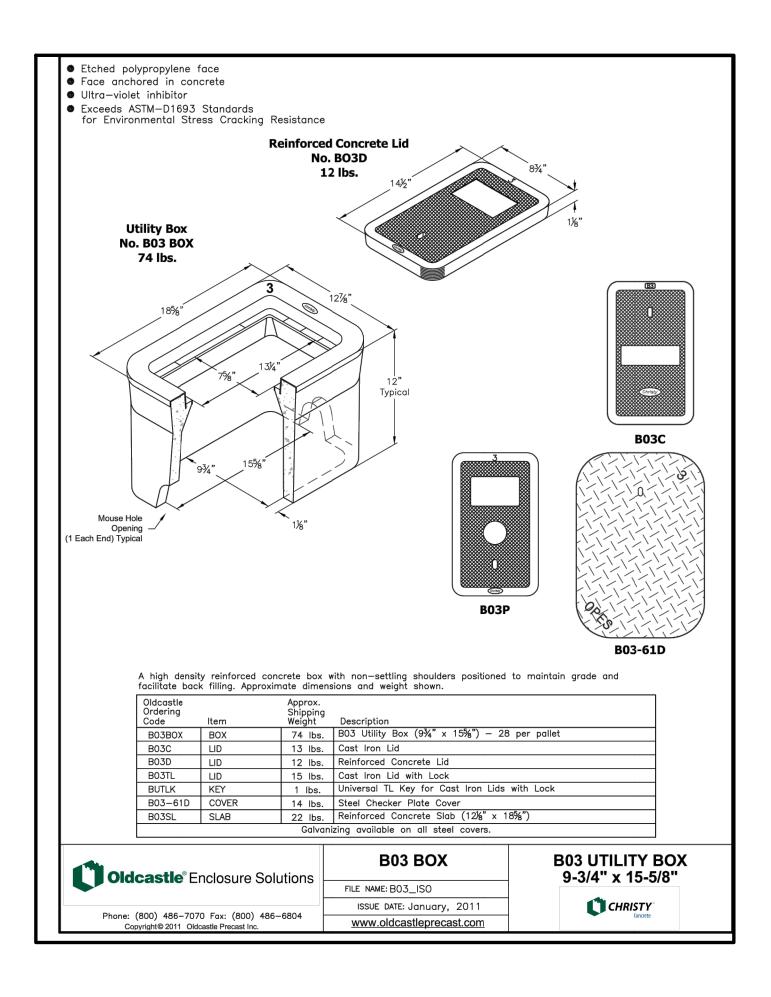
SUBMITTAL SET phase / rev 2017.05.30

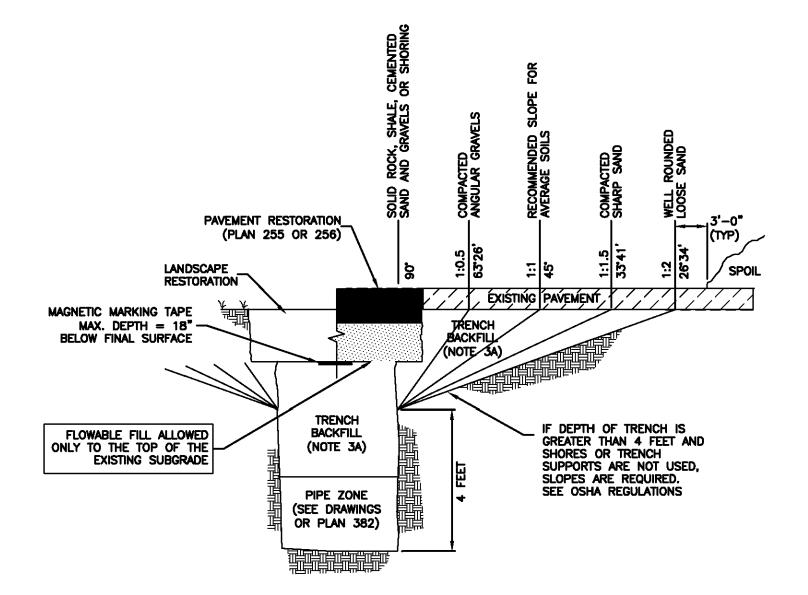


<u>Tvpe</u> E

Curb and gutter

- 1. GENERAL
- A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
- B. Additional requirements are specified in APWA Section 32 16 13.
- 2. PRODUCTS
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73. C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
- D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- 3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flowline grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent. C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.





| Trench backfill 203 | 381 | |
|-------------------------------|-----|--|
| Trench backfill | | |

GENERAL

January 2011

A. The drawing applies to backfilling the trench above the pipe zone.

2. PRODUCTS

A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches. B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.

3. EXECUTION

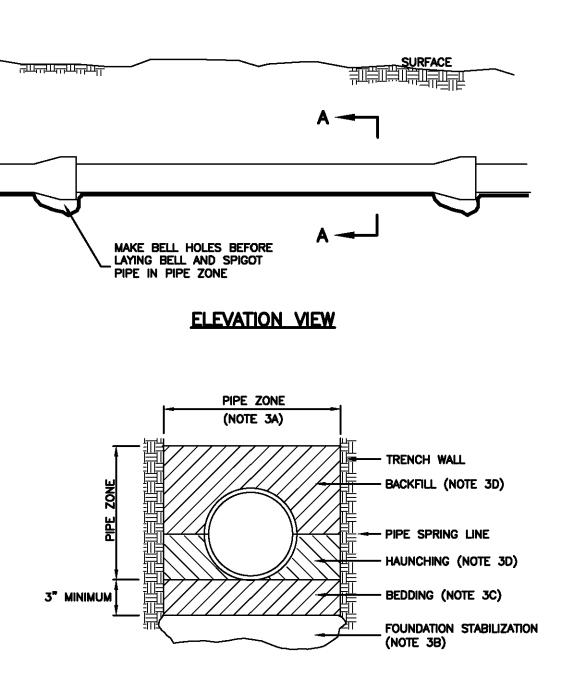
- A. Trench Backfill:
 - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23
 - 3) Water jetting is NOT allowed.
 - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
- B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
- C. Surface Restoration: 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
- 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).

3. EXECUTION

January 2011

1. GENERAL

- C. Base Course:



SECTION A-A

INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479 STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE PVC AND HDPE PIPE: FOLLOW ASTM D 2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW

CORRUGATED METAL PIPE: FOLLOW ASTM A 798 FOR SEVERS AND OTHER APPLICATION STANDARD PRACTICE FOR INSTALLING FACOTRY-MADE CORRUGATED STEE VITRIFIED CLAY PIPE: FOLLOW ASTM C 12. RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

Pipe zone backfill 205

Plan 382

Pipe zone backfill

A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.

2. PRODUCTS A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission. B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.

C. Concrete: APWA Section 03 30 04. D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation. E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.

B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.

1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.

2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23

3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04. D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.

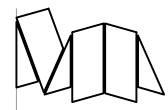
1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.

2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.

E. Flowable Fill (when required and if allowed by pipe manufacturer): 1) Place the controlled low strength material, APWA Section 31 05 15.

2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.

3) Reset pipe to line and grade if pipe "floats" out of position.



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sma project no. 16-101

sma project name POWDERCAT

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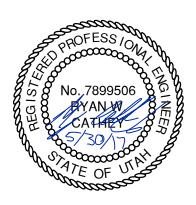
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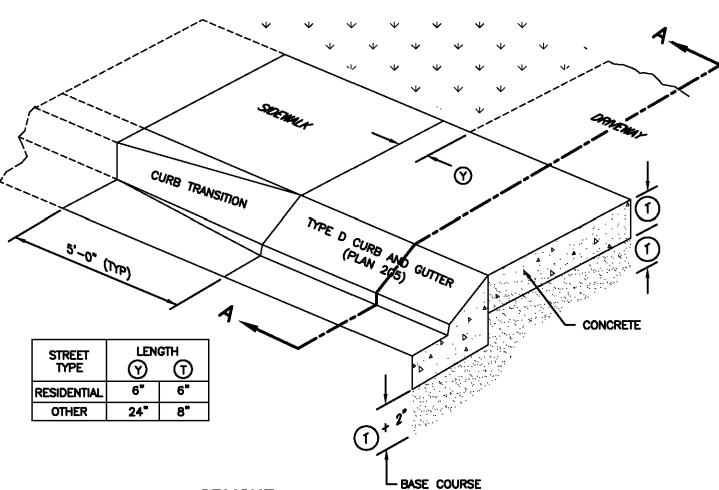
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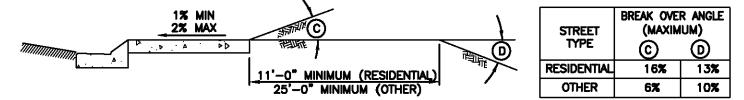




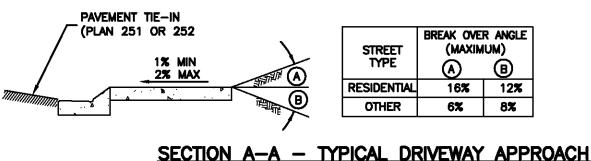
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OBLIQUE



SECTION A-A - APPROACH REQUIRING SERVICE TRUCK ACCESS



Plan

216

Mountable curb driveway approach

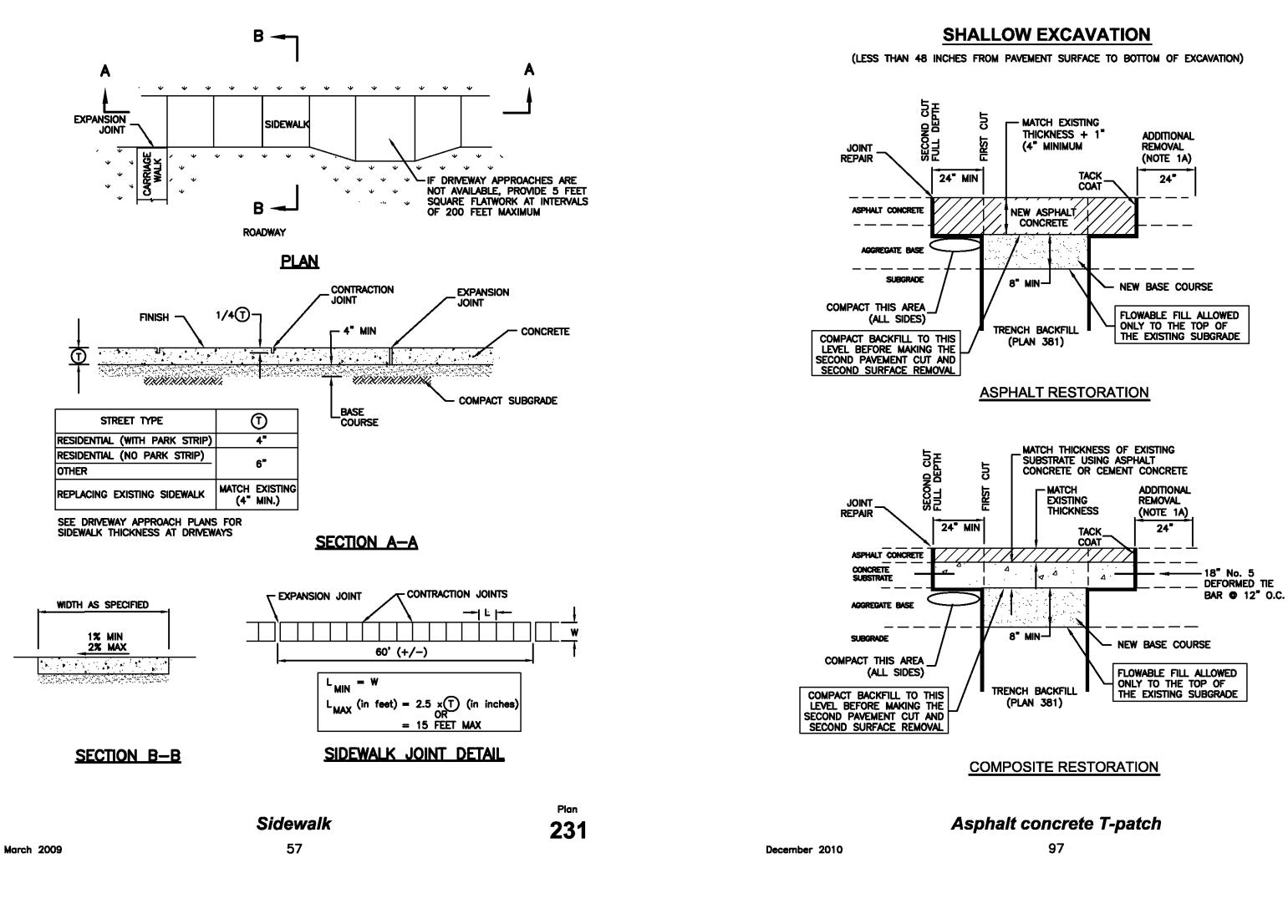
43

December 2009

Mountable curb driveway approach

1. GENERAL

- A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion. B. Additional requirements are specified in APWA Section 32 16 13.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73. C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete
 - crazing (spider cracks) may develop if air temperature exceeds 90 degrees F. D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A 615.
 - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- 3. EXECUTION
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent. C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



Sidewalk

GENERAL

- A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
- B. Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS 2.
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73. C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that
- achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
- D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

EXECUTION 3.

- A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- B. Concrete Placement: APWA Section 03 30 10.
- 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
- 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
- 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

GENERAL 1. 2. PRODUCTS

- ASTM A 615.

3. EXECUTION

- substituted.

Plan

255

Sheet 1 of 2

Asphalt concrete T-patch

A. If a saw cut in the direction of vehicular travel is in a wheel path, consult ENGINEER for directions on removing additional pavement other than the amount shown on the drawing.

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission. B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section

31 05 15. It must flow easily requiring no vibration for consolidation. C. Reinforcement. No. 5, Galvanized or epoxy coated, deformed, 60 ksi yield grade steel,

D. Concrete: Class 4000, APWA Section 03 30 04.

E. Tack Coat: APWA Section 32 12 13.13.

F. Asphalt Concrete. APWA Section 32 12 05.

1) Warm Weather Patch: AC-20-DM-1/2, unless indicated otherwise. 2) Cold Weather Patch: Modified MC-250-FM-1 as indicated in APWA Section 33 05 25.

A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26

B. Flowable Fill: Cure to initial set before placing aggregate base or asphalt pavement. Use in excavations that are too narrow to receive compaction equipment.

C. Tack Coat. Clean all horizontal and vertical surfaces. Apply full coverage. D. Asphalt Pavement. Match existing thickness plus 1 inch but not More than 6-inches in residential thoroughfares or 8-inches non residential thoroughfares. Install in lifts no greater than 3-inches after compaction. Compact to 94 percent of ASTM D 2041 (Rice density) plus or minus 2 percent. If asphalt pavement is substituted for concrete substrate, omit rebar and provide 1.25 inches of pavement for each 1 inch of concrete substrate

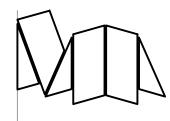
E. Reinforcement. Required if thickness of existing Portland-cement concrete substrate is 6inches or greater. Not required if (1) less than 6-inches thick, (2) if existing concrete is deteriorating, (3) if excavation is less than 3 feet square, or (4) if asphalt pavement is substituted for Portland-cement concrete substrate.

F. Concrete Substrate. Cure to initial set before placing new asphalt concrete patch. G. Joint Repair: If a crack occurs at a connection to an existing pavement or at any street fixture, flush seal the crack per Plan 265.

H. Patch Repair: Repair patch if any of the following conditions within the patch occur. 1) Pavement surface distortion exceeds 1/4-inch deviation in 10 feet. Repair option: Plane off surface distortions. Coat planed surfaces with a cationic or anionic emulsion that complies with APWA Section 32 12 03.

2) Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet. Repair option: Crack seal.

3) Asphalt raveling is greater than 1 square foot per 100 square feet. Repair option: Mill and inlay.



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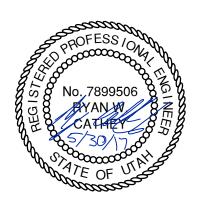
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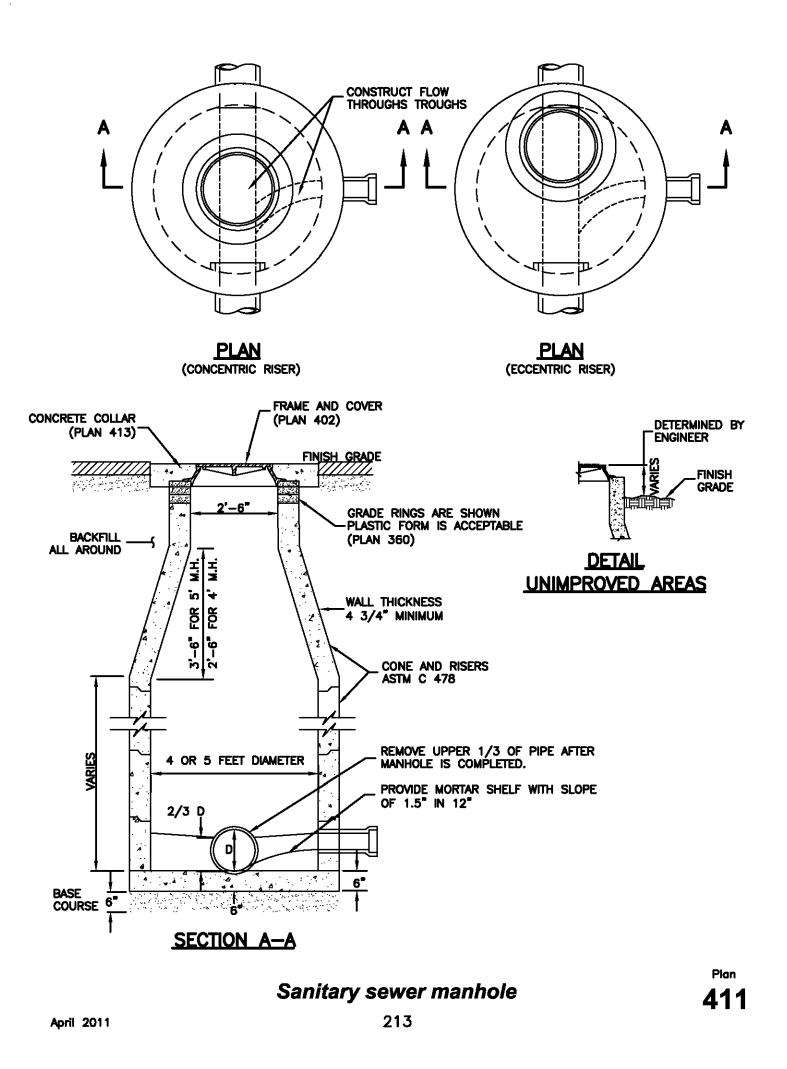
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N/A scale



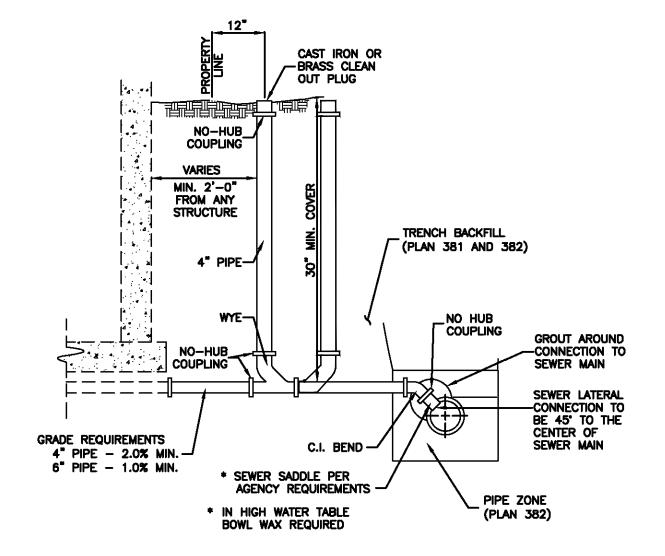
Sanitary sewer manhole

1. GENERAL

- A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
- B. Manhole size. 1) Diameter is 4 feet: For sewers under 12" diameter.
- 2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: Class 4000, APWA Section 03 30 04.
 - D. Riser and Reducing Riser: ASTM C 478.
 - E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
 - F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329. G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

3. EXECUTION

- A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
- B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
- D. Pipe Connections: Grout around all pipe openings.
- E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
- F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout. G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone
- and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
- H Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
- I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



Sewer lateral connection 219



August 2001

1. GENERAL

522.

<u>Noi</u> (▲) (●) (E)

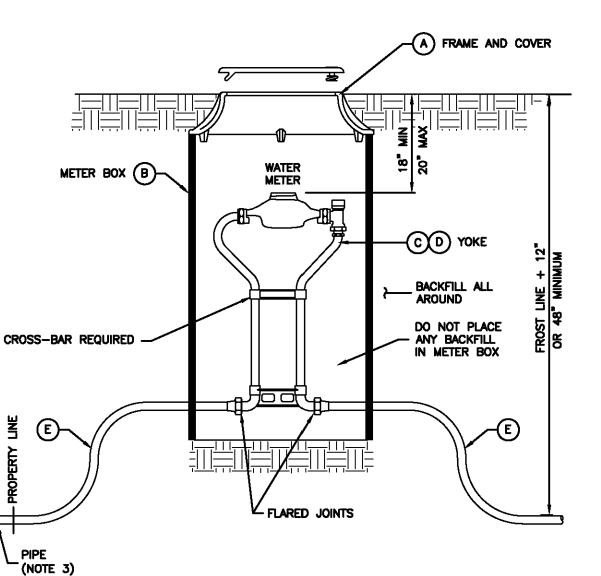
Sewer lateral connection

1. GENERAL

January 2011

- A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
- B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24
- hours notice. C. Verify if CONTRACTOR or agency is to install the wye.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel
 - as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches. C. Provide agency approved wye or tee with appropriate donut.
 - D. Stainless steel straps required.
- 3. EXECUTION
 - A. Tape wrap pipe as required by soil conditions. B. Remove core plug from sewer main. Do not break into sewer main to make connection.
 - C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

A. Meter Placement: 1) All meters are to be installed in the park strip or within 7 feet of the property line (street side). 2) Do not install meters under driveway approaches, sidewalks, or curb and gutter.



SECTION

| LEGEND | | | | | | |
|--------|--|--|--|--|--|--|
| * | ITEM | DESCRIPTION | | | | |
| | FRAME AND COVER | CAST IRON COVER (grass) DUCTILE IRON COVER (driveway) | | | | |
| | METER BOX (18" TO 21" DIAMETER) (30" TO 36" DEEP) | CORRUGATED PE, PVC, CMP OR MATERIAL ACCEPTABLE TO AGENCY | | | | |
| | 3/4" METER YOKE | OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS | | | | |
| | 1" METER YOKE | OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS | | | | |
| | COPPER PIPE | TYPE K (SOFT) | | | | |
| | 1" METER YOKE | PER AGENCY REQUIREMENTS OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS | | | | |

FURNISHED BY UTILITY AGENCY .

3/4" and 1" meter

239

Plan 521

3/4" and 1" meter

A. In street surfaces or other vehicular traffic areas (like driveway approaches), Install the same type of meter box as required for 1 1/2" and 2" service meters. See Plan

B. Before backfilling, secure inspection of installation by ENGINEER.

2. PRODUCTS

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.

B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches. C. Castings: Grey iron class 35 minimum per ASTM A 48, coated with asphalt based paint or better.

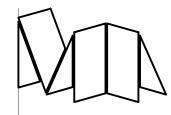
3. EXECUTION

B. Meter Box: Set box so grade of the frame and cover matches the grade of the surrounding surface.

C. Pipe Outside of Right-of-Way: Coordinate with utility agency or adjacent property owner for type of pipe to be used outside of right-of-way.

D. Inspection: Before backfilling around meter box, secure inspection of installation by ENGINEER. E. Base Course and Backfill Placement: Compaction is 95 percent or greater relative

to a modified proctor density, APWA Section 31 23 26. Maximum lift thickness before compaction is 8-inches.



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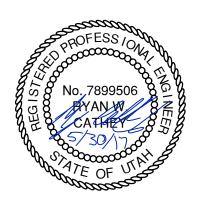
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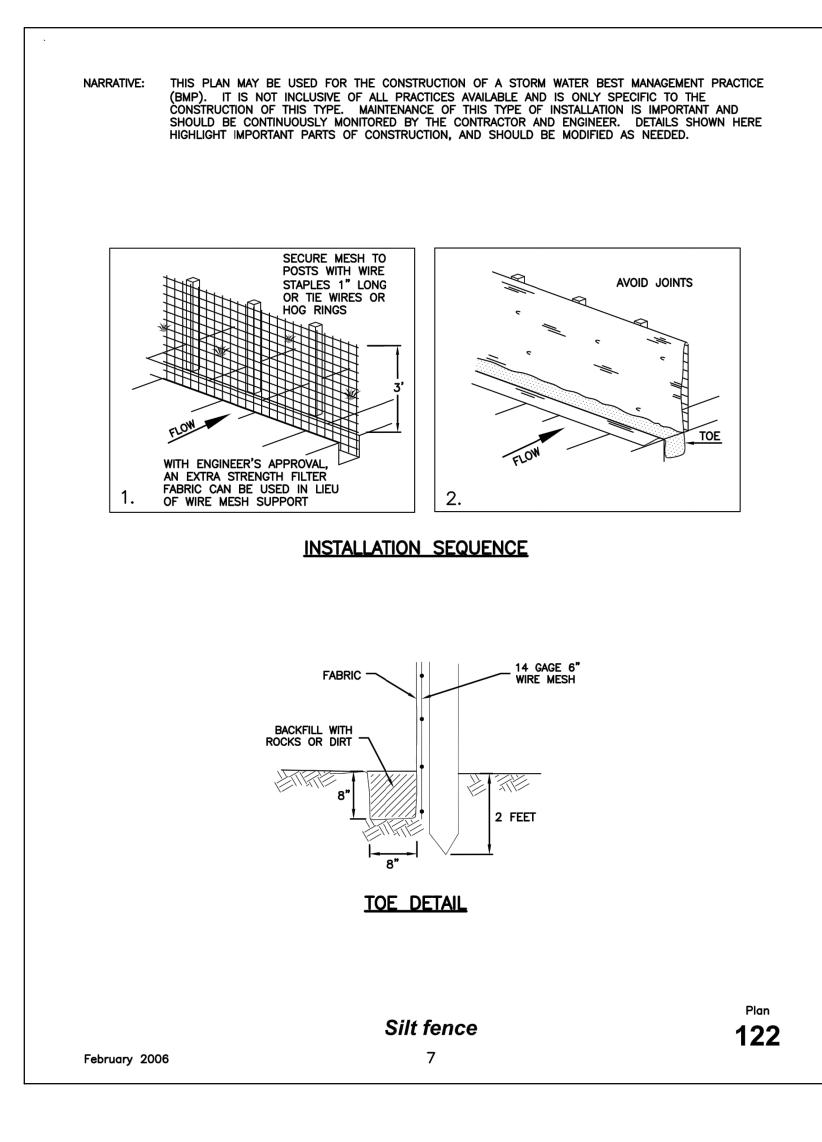
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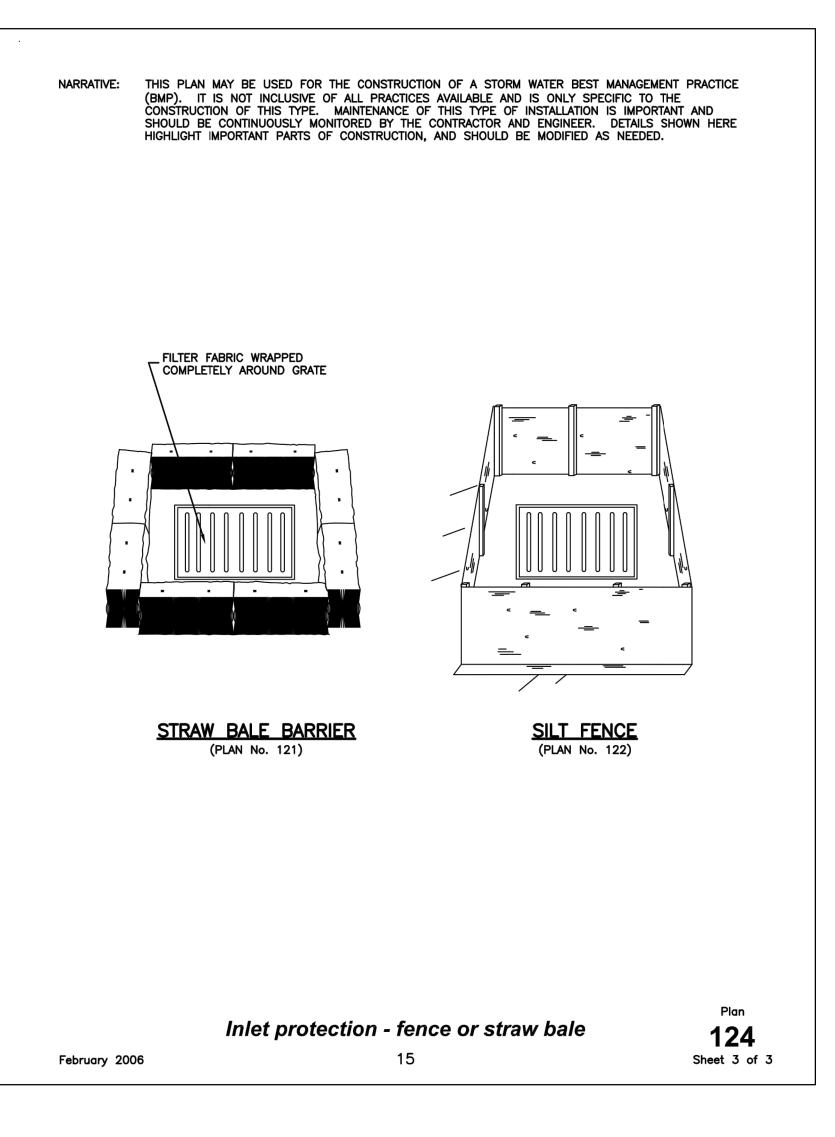
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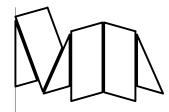




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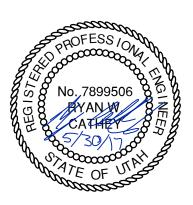
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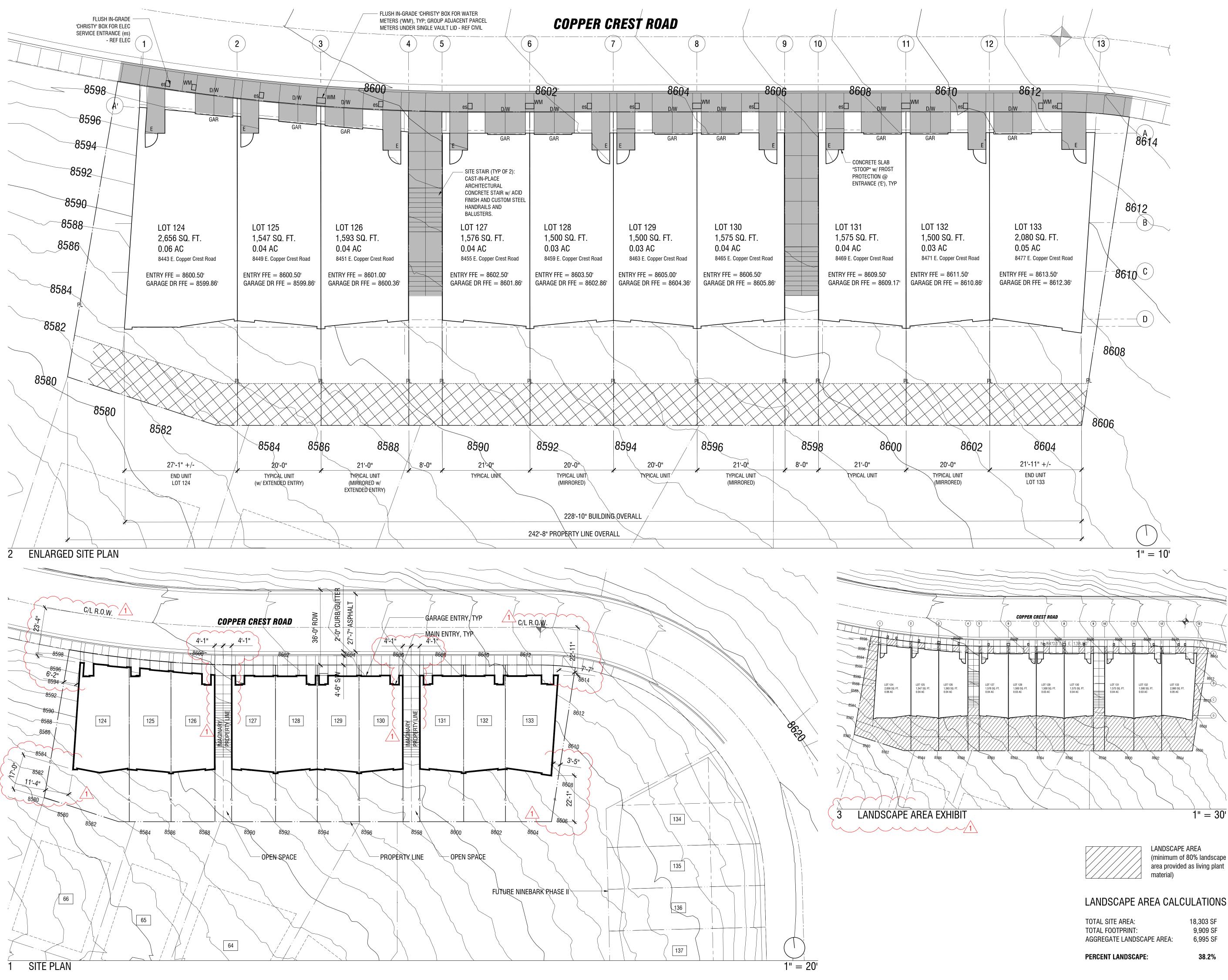
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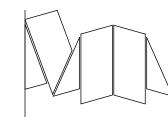
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SUBMITTAL SET phase / rev 2017.05.30 date





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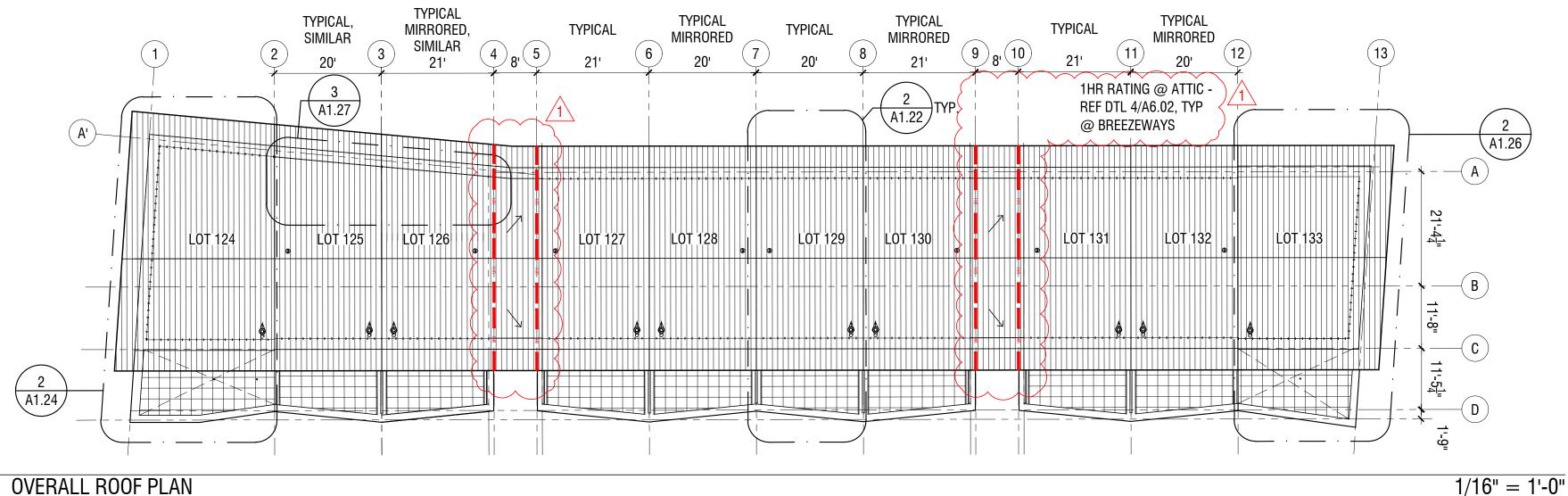
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<u>/1</u> PERMIT SET phase / rev **2017.06.01** date

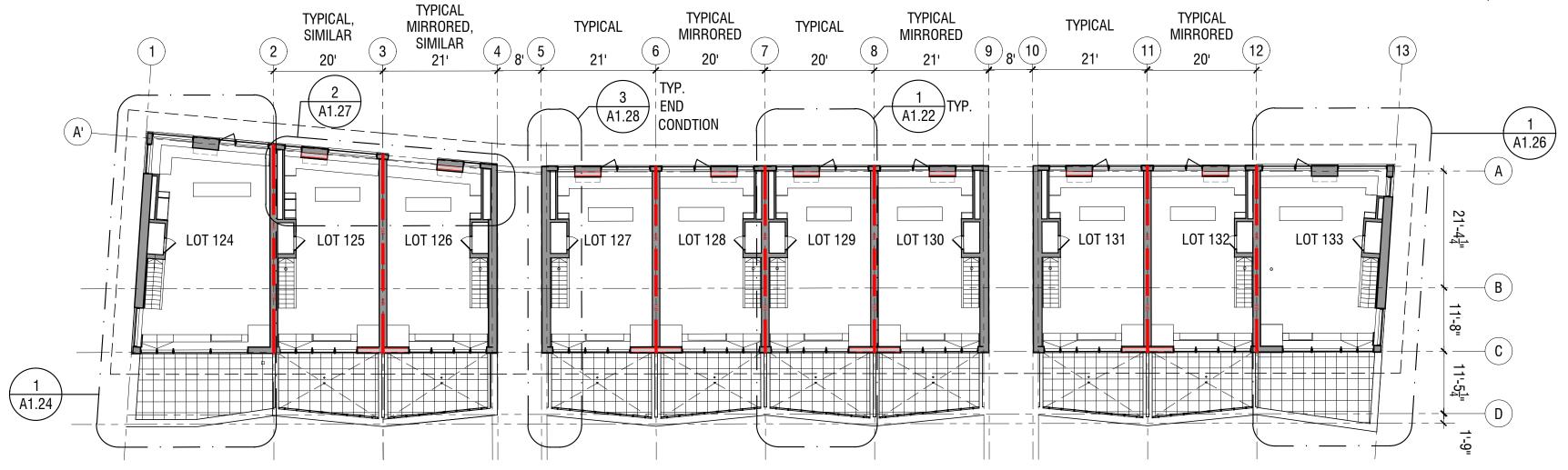
(minimum of 80% landscape area provided as living plant

LANDSCAPE AREA CALCULATIONS

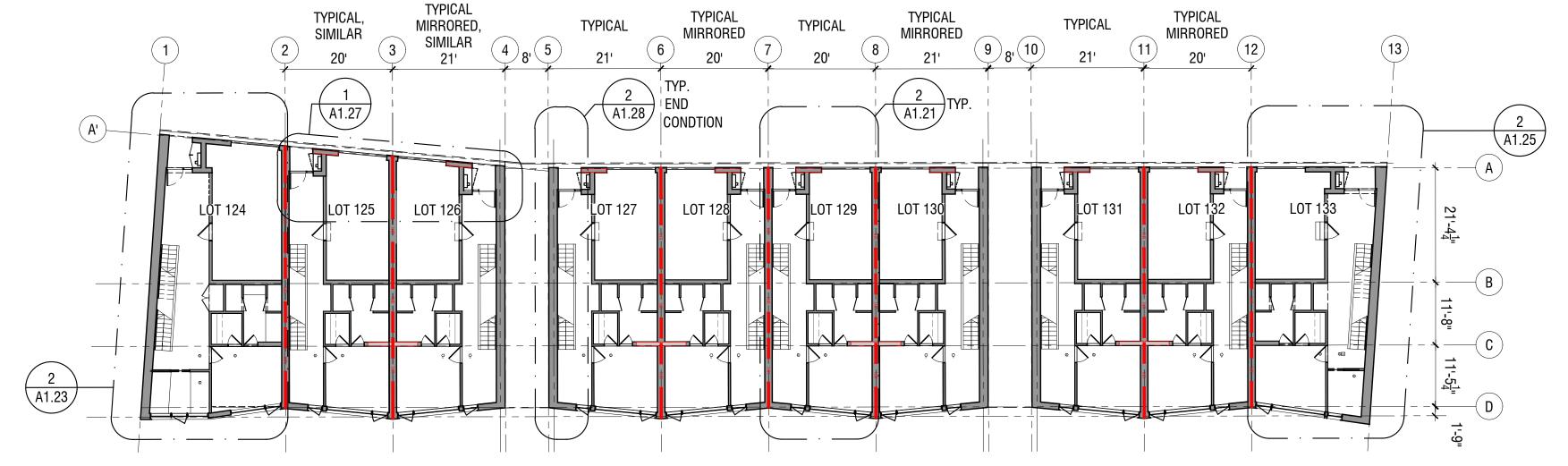
18,303 SF 9,909 SF 6,995 SF



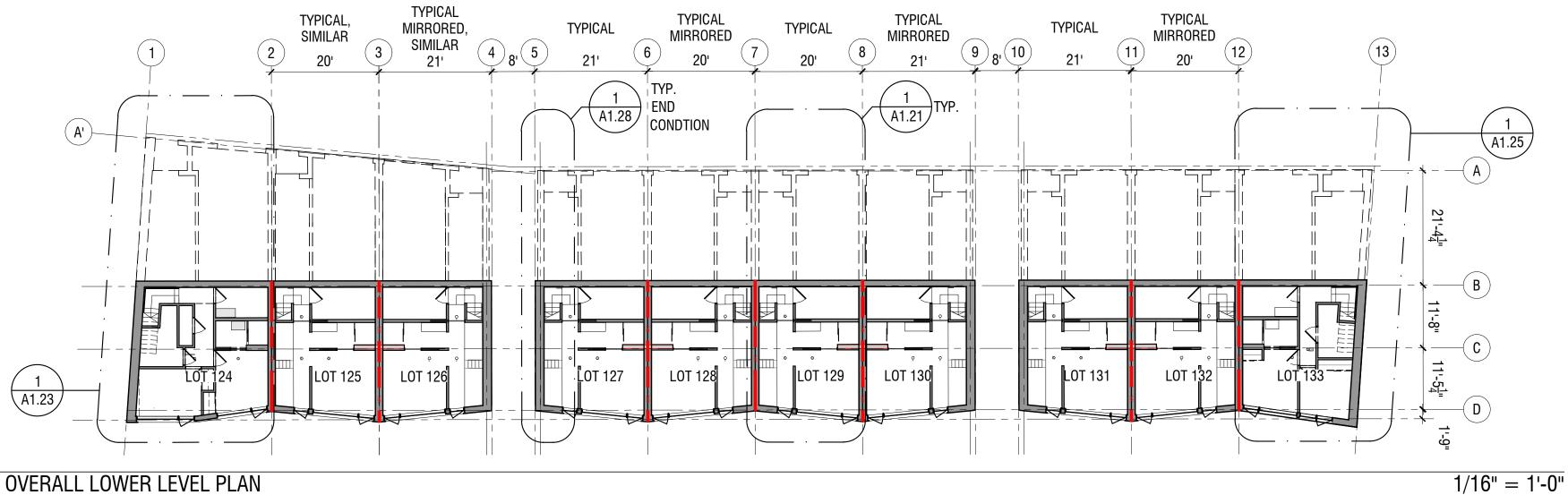




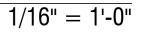
OVERALL 2ND LEVEL PLAN 2



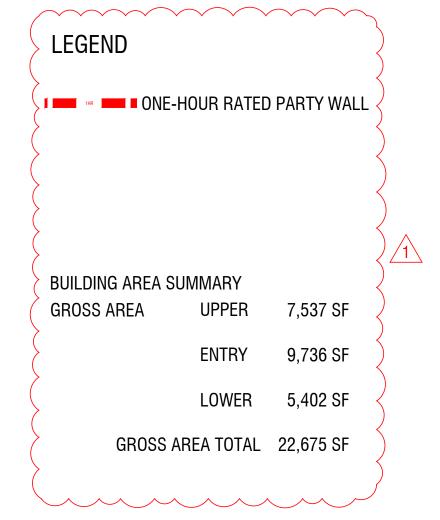
3 OVERALL ENTRY LEVEL PLAN

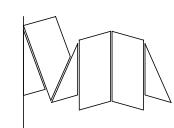


4 OVERALL LOWER LEVEL PLAN



1/16" = 1'-0"





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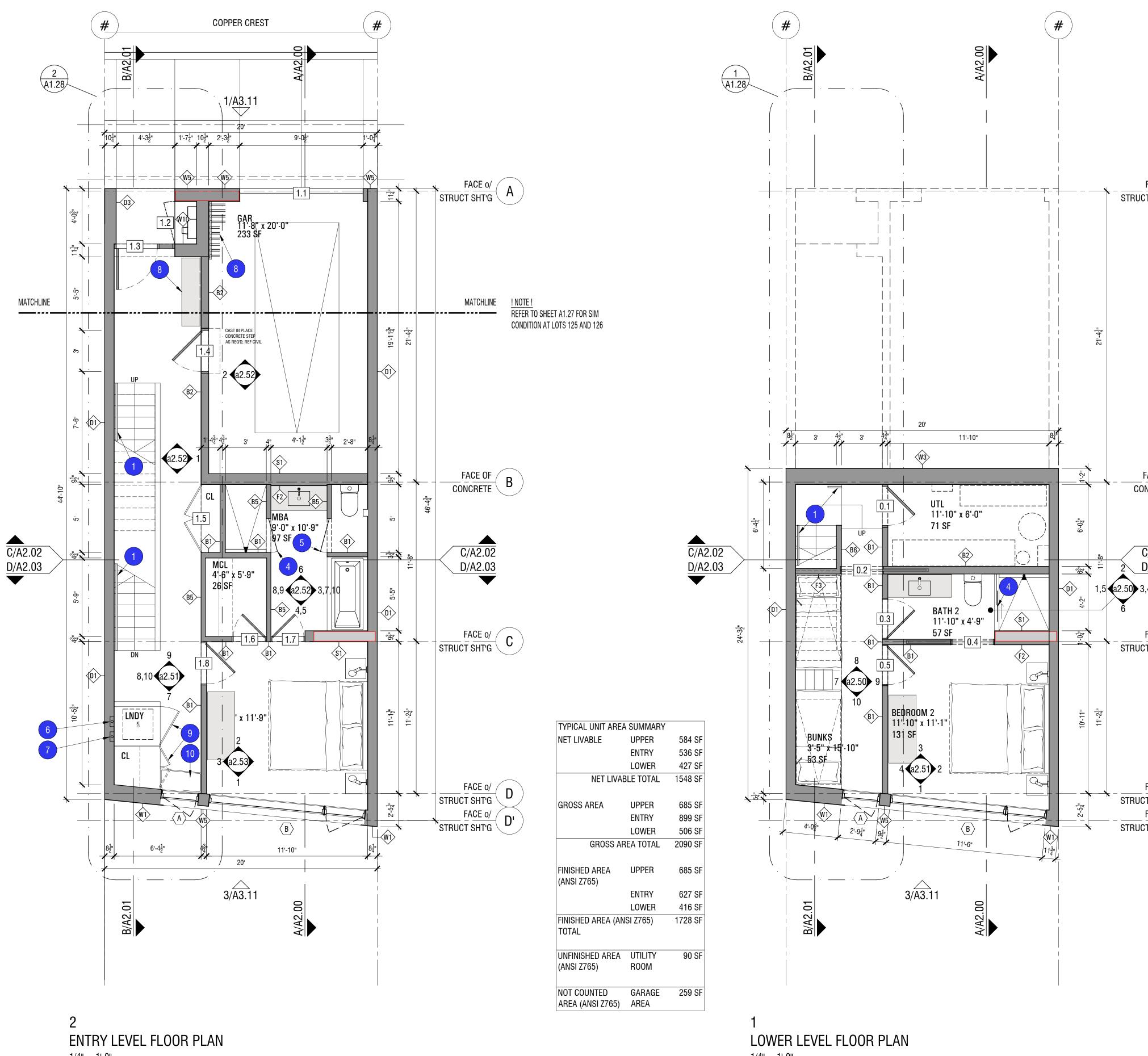




as noted scale

PERMIT SET phase / rev

2017.06.30 date





1/4" = 1'-0"

GENERAL PLAN NOTES

1. Refer to general information sheet for general notes, abbreviations, symbols, legends and alternates.

- 2. General dimensioning requirements:
 - a. All dimensions from existing structures are from face of masonry/concrete wall, or face of finish, typical unless noted otherwise (u.n.o.).
 - b. All dimensions relative to existing conditions shall be verified in field, typical.
 - c. All dimensions to new exterior work are to face of structural sheathing / face of concrete, typical u.n.o.
 - d. All dimensions to new interior walls are to face of finish, typical u.n.o. All dimensions to columns are to center of column, u.n.o.
 - e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
 - f. Dimensions to window walls are to finished opening / outside face of window jamb, not rough opening, u.n.o.; refer to window wall schedule for additional dimensional requirements.
 - g. Dimensions to doors are to door slab, not rough opening, u.n.o.; refer to door schedule for frame size and additional dimensional requirements. Where jamb return is shown, but no dimension is provided, door is to be located 4" from face of adjacent wall to edge of frame.
 - h. All datum elevations are from FFE, not subfloor, u.n.o.
 - i. All dimensions to floor outlets, or boxes, are subject to field coordination. All locations provided are diagrammatic until field-located with Architect and Owner.
- 3. All partitions are full height to underside of structural roof or floor sheathing. Walls which also coincide with structural walls shall be as per the structural framing requirements.
 - a. Walls above doors shall match wall type for adjacent wall, typical u.n.o.
 - b. Walls above and below windows shall be as noted on drawings. Refer to plans for wall tags, and to wall sections and details.
- 4. Provide additional layers of wood sheathing and/or gypsum wall board (rated where required) as necessary to maintain finish dimensions, and to ensure wall surfaces are flush where structural framing and sheathing are not continuous.
- Refer to door and window wall schedule for general door and glazing requirements. 5
- 6. Refer to finish schedule / legends.
- 7. Confirm w/ Owner for A/V, telecommunications, fire alarm, and security documents (by others) for all related equipment including, but not limited to, TVs, projectors, projection screens, speakers, a/v, data, fire alarm, and security specific devices, and cabling. All conduit, floor boxes and junction boxes are part of the work as shown and shall be coordinated with the Architect, Owner, and Owner's specialty contractor(s) prior to commencing work. All systems by Owner shall be coordinated by the General Contractor and submitted for review immediately following the notice to proceed so as not to delay the progress of work.

WALL LEGEND



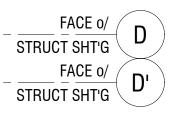


C/A2.02

D/A2.03

FACE 0/ STRUCT SHT'G

FACE OF CONCRETE B



| WALL LLU |
|----------|
| |
| # |

| WALL TYPE |
|---|
| where no tag is provided, bid wall types B2 typ |
| interior, and W1 typ exterior and verify with Architect |
| |

WOOD FRAME WALL

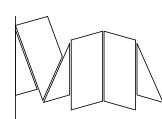
• Nominal 2x interior (non-loadbearing) wood framing @ 24" o.c. max., or as noted. At walls with tile, studs to be @ 16" o.c. max. Plate size to match stud size except where noted. All load-bearing walls to be framed as per structural drawings. Wood in contact with concrete to be pressure-treated, provide sill sealer below all exterior wall sill plates.

SHEAR WALL

• Fill all stud cavities with insulation - thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KEYNOTES

| # | DESCRIPTION | REF. DTL/SHT |
|----|---|------------------------------------|
| 1 | STAIR HANDRAIL / GUARDRAIL | 3,4/A2.10 |
| 2 | CANTILEVER GLASS GUARDRAIL | 2/A5.07 |
| 3 | KITCHEN ISLAND w/ CABINETS BELOW | |
| 4 | GLASS SHOWER ENCLOSURE & DR | |
| 5 | GLASS WATER CLOSET ENCLOSURE & DR | |
| 6 | RECESSED DRYERBOX | REF. MECH. |
| 7 | RECESSED WASHER BOX | REF. PLBG. |
| 8 | STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) | REF. SPECS |
| 9 | FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; | REF. MLWK. SPECS REF. INT ELEV. |
| 10 | MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER | REF. MLWK. SPECS |
| 11 | SIMILAR BUNK CONDITION | A5.12 |
| 12 | MILLWORK | REF. MLWK. SPECS |



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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CIVIL talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171

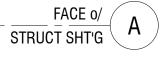
MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

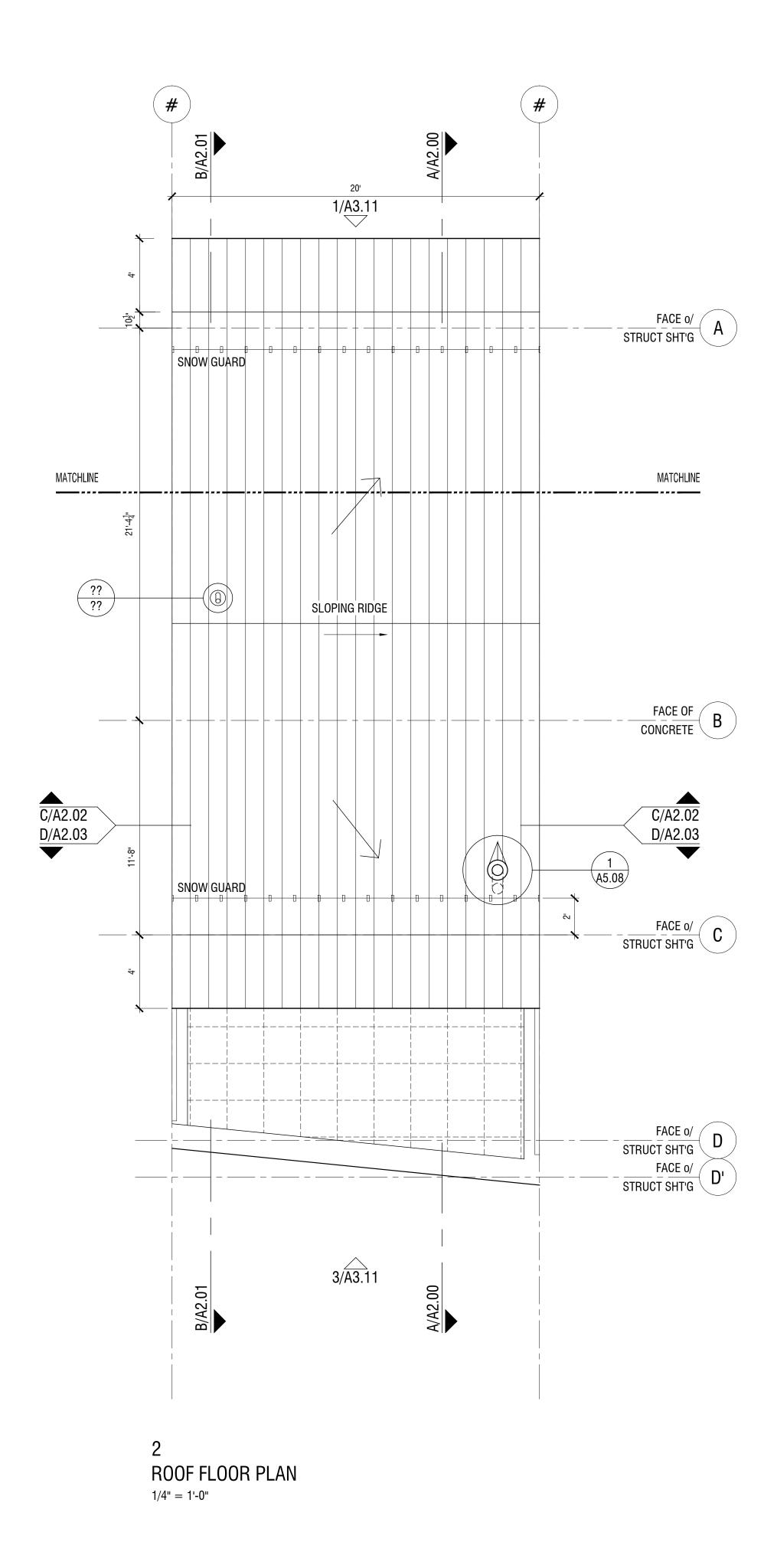
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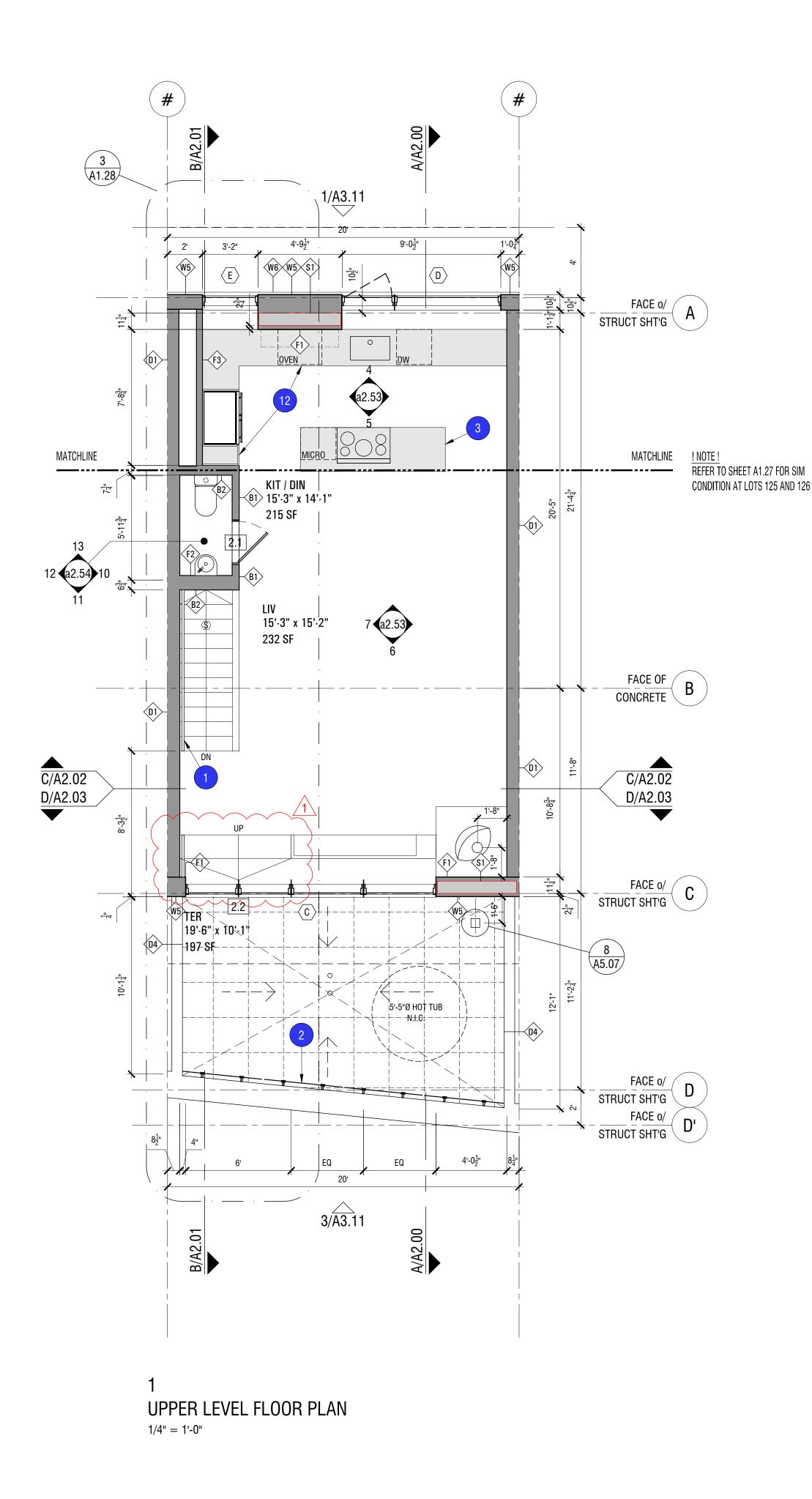




1/4" = 1'-0" scale







GENERAL PLAN NOTES

- 1. Refer to general information sheet for general notes, abbreviations, symbols, legends and alternates.
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 - c. All dimensions to new exterior work are to face of structural sheathing / face of concrete, typical u.n.o.
 - d. All dimensions to new interior walls are to face of finish, typical u.n.o. All dimensions to columns are to center of column, u.n.o.
 - e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
 - f. Dimensions to window walls are to finished opening / outside face of window jamb, not rough opening, u.n.o.; refer to window wall schedule for additional dimensional requirements.
 - g. Dimensions to doors are to door slab, not rough opening, u.n.o.; refer to door schedule for frame size and additional dimensional requirements. Where jamb return is shown, but no dimension is provided, door is to be located 4" from face of adjacent wall to edge of frame.
 - h. All datum elevations are from FFE, not subfloor, u.n.o.
 - i. All dimensions to floor outlets, or boxes, are subject to field coordination. All locations provided are diagrammatic until field-located with Architect and Owner.
- 3. All partitions are full height to underside of structural roof or floor sheathing. Walls which also coincide with structural walls shall be as per the structural framing requirements.
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WALL LEGEND



WOOD FRAME WALL

WALL TYPE
 where no tag is provided, bid wall types B2 typ
 interior, and W1 typ exterior and verify with Architect

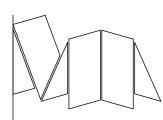
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- Fill all stud cavities with insulation thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KEYNOTES

| DECODIDITION | |
|--|--|
| DESCRIPTION | REF. DTL/SHT |
| STAIR HANDRAIL / GUARDRAIL | 3,4/A2.10 |
| CANTILEVER GLASS GUARDRAIL | 2/A5.07 |
| KITCHEN ISLAND w/ CABINETS BELOW | |
| GLASS SHOWER ENCLOSURE & DR | |
| GLASS WATER CLOSET ENCLOSURE & DR | |
| RECESSED DRYERBOX | REF. MECH. |
| RECESSED WASHER BOX | REF. PLBG. |
| STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) | REF. SPECS |
| FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; | REF. MLWK. SPECS REF. INT ELEV. |
| MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER | REF. MLWK. SPECS |
| SIMILAR BUNK CONDITION | A5.12 |
| MILLWORK | REF. MLWK. SPECS |
| | STAIR HANDRAIL / GUARDRAIL CANTILEVER GLASS GUARDRAIL KITCHEN ISLAND w/ CABINETS BELOW GLASS SHOWER ENCLOSURE & DR GLASS WATER CLOSET ENCLOSURE & DR RECESSED DRYERBOX RECESSED DRYERBOX RECESSED WASHER BOX STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER SIMILAR BUNK CONDITION |

GENERAL ROOF PLAN NOTES

- 1. Refer to general information sheet for general notes, abbreviations, symbols, legends and alternates.
- 2. All roof mounted equipment to be placed with special attention to visibility and sight lines, and are to be confirmed in the field with the Architect prior to starting work. Field coordinate height of all mechanical screens to ensure all roof-mounted equipment is fully screened.
- 3. Vent pipes and all other roof penetrations shall be planned carefully prior to rough-in. Consolidate, size, and locate as inconspicuously as possible, with heights as per code-minimum requirements - provide fabricated metal shroud to screen penetrations from view; match roofing material.
- 4. At sloped metal roofs, wrap and/or clad non-metal items to match material and finish of roofing where metal shroud cannot be provided, such as chimneys.



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. **16-101**

sma project name **POWDERCAT**

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CIVIL talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

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LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

SHEAR WALL





1/4" = 1'-0" scale



1/4" = 1'-0"

1/4" = 1'-0"

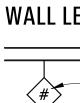
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 - e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
 - f. Dimensions to window walls are to finished opening / outside face of window jamb, not rough opening, u.n.o.; refer to window wall schedule for additional dimensional requirements.
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WALL LEGEND



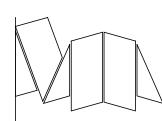


| WOOD FRAME WALL | |
|--|--|
| WALL TYPE where no tag is provided, bid wall types B2 typ interior, and W1 typ exterior and verify with Ar | |

- Nominal 2x interior (non-loadbearing) wood framing @ 24" o.c. max., or as noted. At walls with tile, studs to be @ 16" o.c. max. Plate size to match stud size except where noted. All load-bearing walls to be framed as per structural drawings. Wood in contact with concrete to be pressure-treated, provide sill sealer below all exterior wall sill plates.
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KEYNOTES

| # | DESCRIPTION | REF. DTL/SHT |
|----|--|------------------------------------|
| 1 | STAIR HANDRAIL / GUARDRAIL | 3,4/A2.10 |
| 2 | CANTILEVER GLASS GUARDRAIL | 2/A5.07 |
| 3 | KITCHEN ISLAND w/ CABINETS BELOW | |
| 4 | GLASS SHOWER ENCLOSURE & DR | |
| 5 | GLASS WATER CLOSET ENCLOSURE & DR | |
| 6 | RECESSED DRYERBOX | REF. MECH. |
| 7 | RECESSED WASHER BOX | REF. PLBG. |
| 8 | STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) | REF. SPECS |
| 9 | FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; | REF. MLWK. SPECS REF. INT ELEV. |
| 10 | MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER | REF. MLWK. SPECS |
| 11 | SIMILAR BUNK CONDITION | A5.12 |
| 12 | MILLWORK | REF. MLWK. SPECS |



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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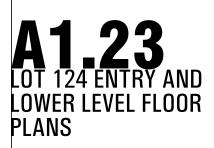
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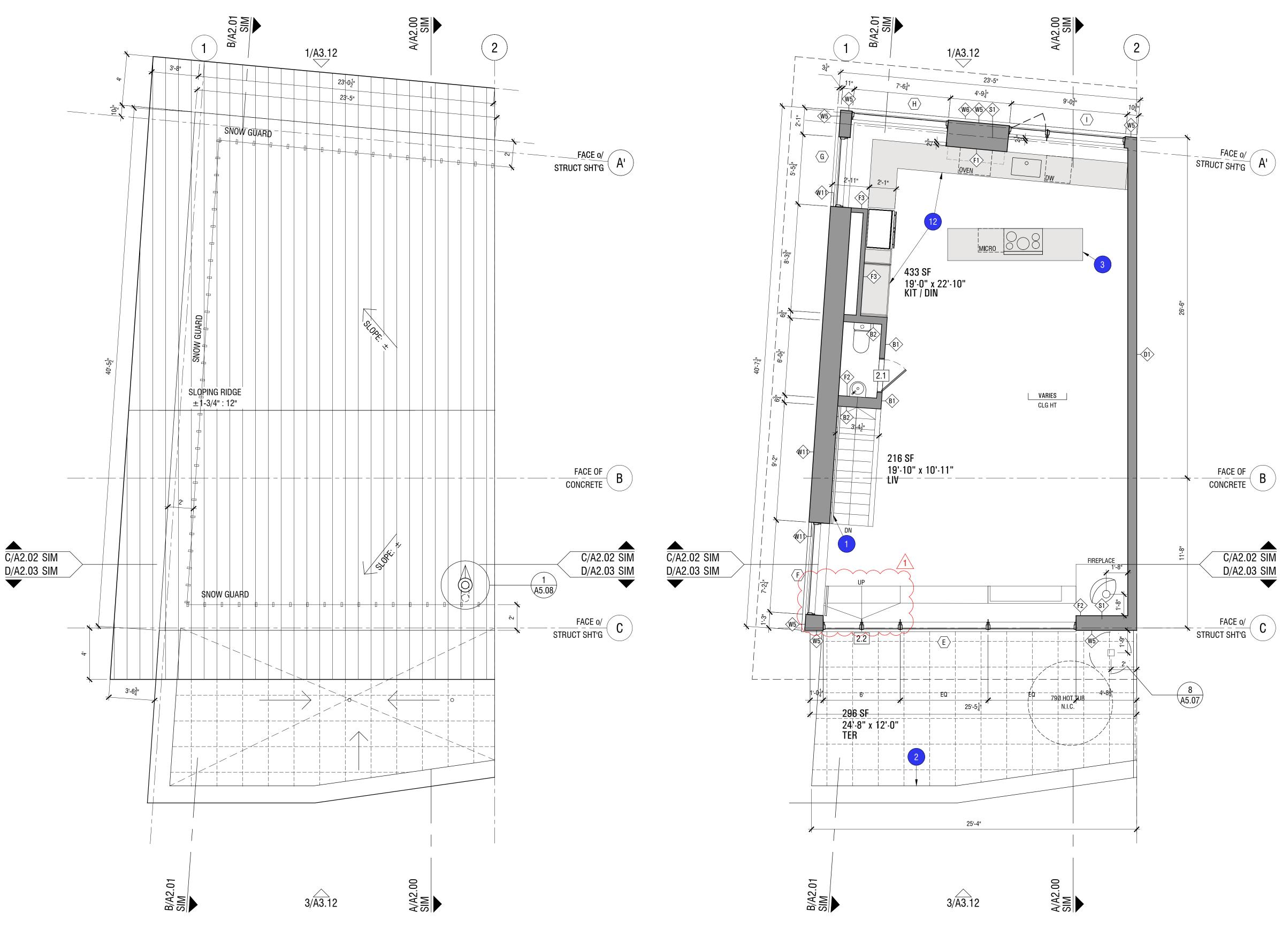
LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

SHEAR WALL





1/4" = 1'-0" scale



2 **ROOF FLOOR PLAN** 1/4" = 1'-0"

UPPER LEVEL FLOOR PLAN 1/4" = 1'-0"

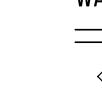
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WALL LEGEND





| | WOOD FRAME WALL | |
|---|---|--|
| # | [~] WALL TYPE where no tag is provided, bid wall types B2 typ interior, and W1 typ exterior and verify with Ar | |

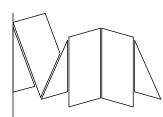
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KEYNOTES

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| GLASS WATER CLOSET ENCLOSURE & DR | |
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| RECESSED WASHER BOX | REF. PLBG. |
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| MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER | REF. MLWK. SPECS |
| SIMILAR BUNK CONDITION | A5.12 |
| MILLWORK | REF. MLWK. SPECS |
| | DESCRIPTION STAIR HANDRAIL / GUARDRAIL CANTILEVER GLASS GUARDRAIL KITCHEN ISLAND w/ CABINETS BELOW GLASS SHOWER ENCLOSURE & DR GLASS WATER CLOSET ENCLOSURE & DR RECESSED DRYERBOX RECESSED DRYERBOX RECESSED WASHER BOX STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER SIMILAR BUNK CONDITION |

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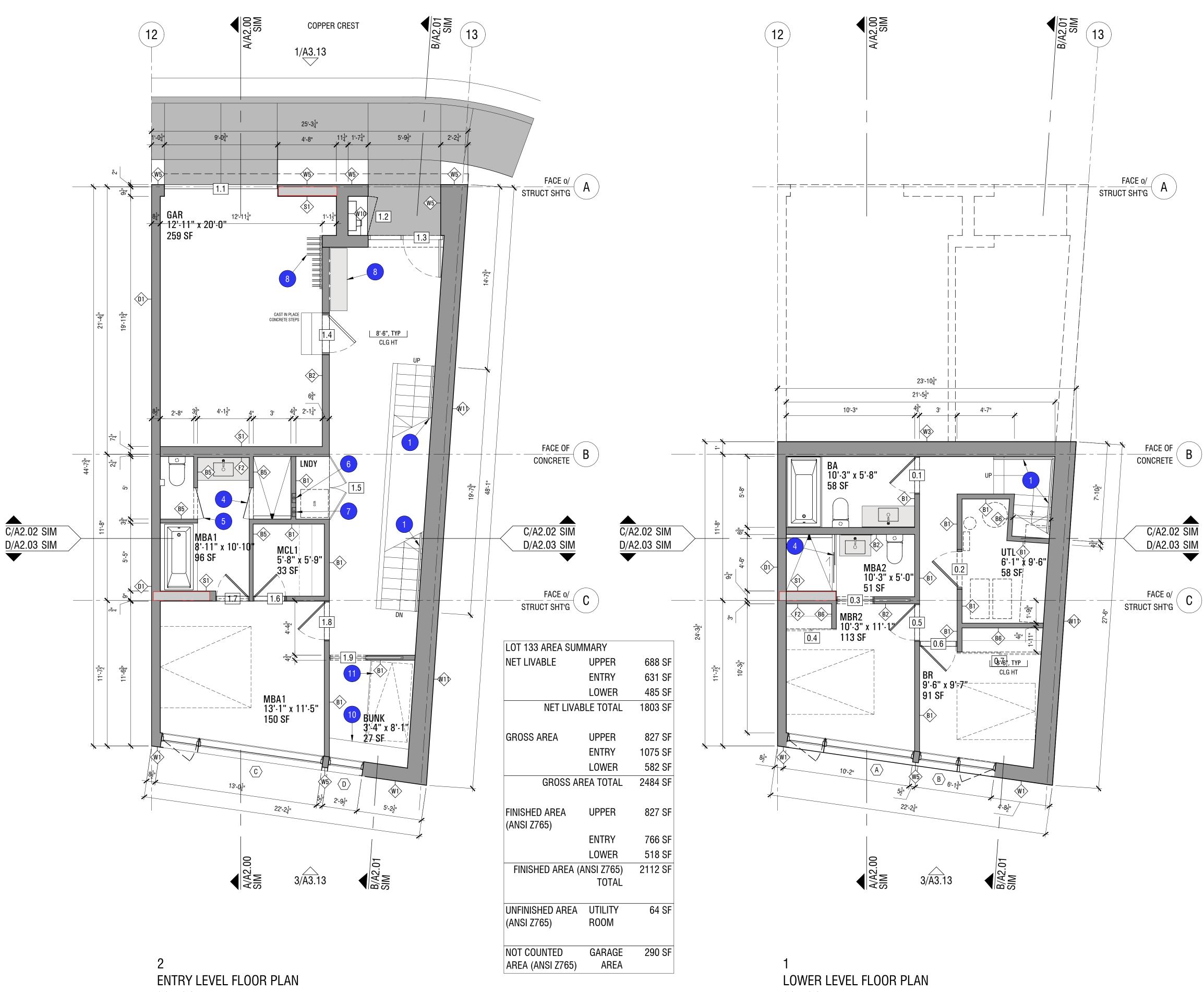
SHEAR WALL





1/4" = 1'-0" scale

∕1∖



1/4" = 1'-0"

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WALL LEGEND



WOOD FRAME WALL

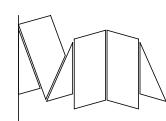
WALL TYPE

where no tag is provided, bid wall types B2 typ interior, and W1 typ exterior and verify with Architect

- Nominal 2x interior (non-loadbearing) wood framing @ 24" o.c. max., or as noted. At walls with tile, studs to be @ 16" o.c. max. Plate size to match stud size except where noted. All load-bearing walls to be framed as per structural drawings. Wood in contact with concrete to be pressure-treated, provide sill sealer below all exterior wall sill plates.
- Fill all stud cavities with insulation thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KEYNOTES

| # | DESCRIPTION | REF. DTL/SHT |
|----|--|------------------------------------|
| 1 | STAIR HANDRAIL / GUARDRAIL | 3,4/A2.10 |
| 2 | CANTILEVER GLASS GUARDRAIL | 2/A5.07 |
| 3 | KITCHEN ISLAND w/ CABINETS BELOW | |
| 4 | GLASS SHOWER ENCLOSURE & DR | |
| 5 | GLASS WATER CLOSET ENCLOSURE & DR | |
| 6 | RECESSED DRYERBOX | REF. MECH. |
| 7 | RECESSED WASHER BOX | REF. PLBG. |
| 8 | STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) | REF. SPECS |
| 9 | FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; | REF. MLWK. SPECS REF. INT ELEV. |
| 10 | MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER | REF. MLWK. SPECS |
| 11 | SIMILAR BUNK CONDITION | A5.12 |
| 12 | MILLWORK | REF. MLWK. SPECS |
| | | |



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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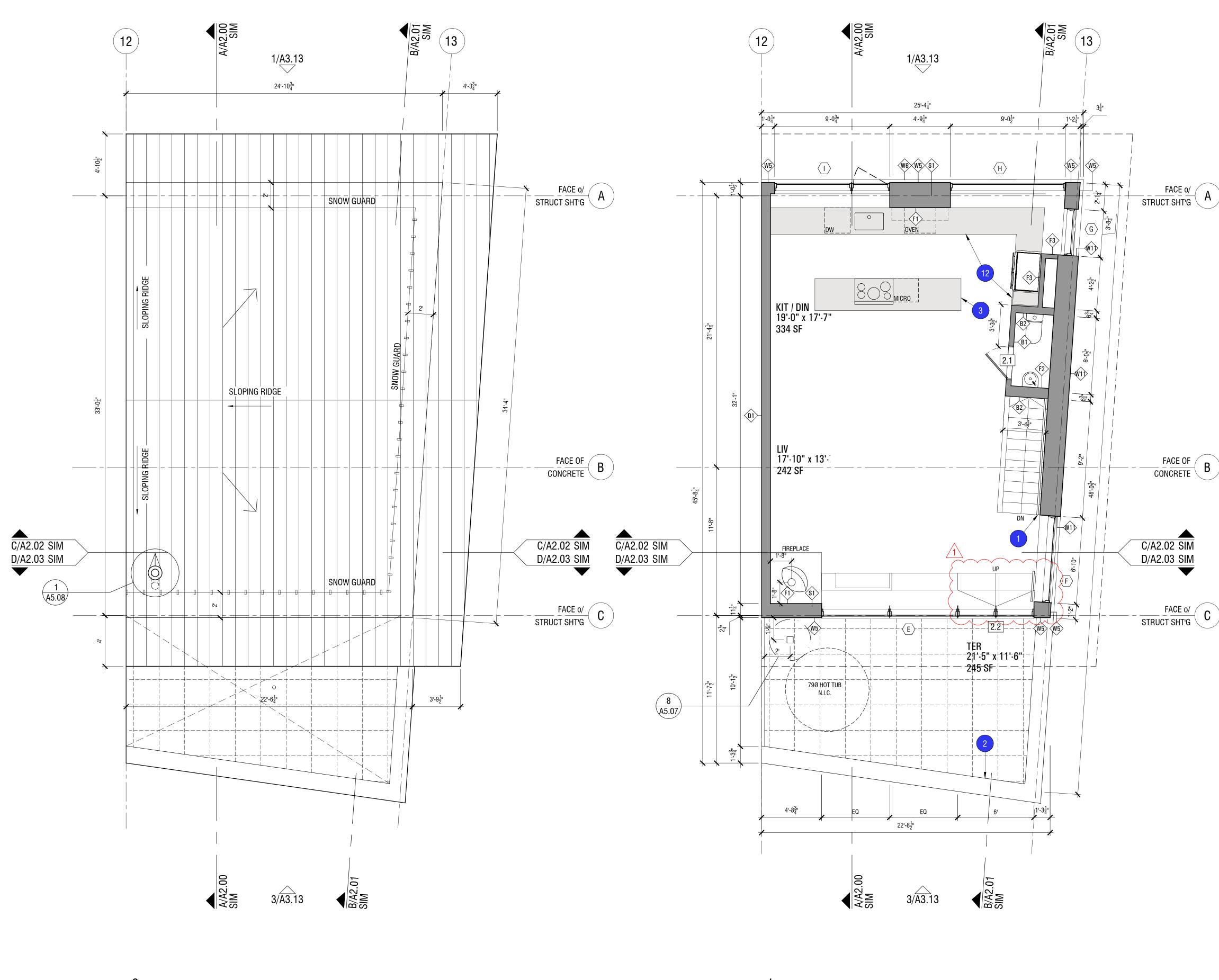




1/4" = 1'-0" scale

PERMIT SET phase / rev 2017.06.01 date

SHEAR WALL



2 ROOF FLOOR PLAN 1/4" = 1'-0"



GENERAL PLAN NOTES

1. Refer to general information sheet for general notes, abbreviations, symbols, legends and alternates.

- 2. General dimensioning requirements:
 - a. All dimensions from existing structures are from face of masonry/concrete wall, or face of finish, typical unless noted otherwise (u.n.o.).
 - b. All dimensions relative to existing conditions shall be verified in field, typical.
 - c. All dimensions to new exterior work are to face of structural sheathing / face of concrete, typical u.n.o.
 - d. All dimensions to new interior walls are to face of finish, typical u.n.o. All dimensions to columns are to center of column, u.n.o.
 - e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
 - f. Dimensions to window walls are to finished opening / outside face of window jamb, not rough opening, u.n.o.; refer to window wall schedule for additional dimensional requirements.
 - g. Dimensions to doors are to door slab, not rough opening, u.n.o.; refer to door schedule for frame size and additional dimensional requirements. Where jamb return is shown, but no dimension is provided, door is to be located 4" from face of adjacent wall to edge of frame.
 - h. All datum elevations are from FFE, not subfloor, u.n.o.
 - i. All dimensions to floor outlets, or boxes, are subject to field coordination. All locations provided are diagrammatic until field-located with Architect and Owner.
- 3. All partitions are full height to underside of structural roof or floor sheathing. Walls which also coincide with structural walls shall be as per the structural framing requirements.
 - a. Walls above doors shall match wall type for adjacent wall, typical u.n.o.
 - b. Walls above and below windows shall be as noted on drawings. Refer to plans for wall tags, and to wall sections and details.
- 4. Provide additional layers of wood sheathing and/or gypsum wall board (rated where required) as necessary to maintain finish dimensions, and to ensure wall surfaces are flush where structural framing and sheathing are not continuous.
- 5. Refer to door and window wall schedule for general door and glazing requirements.
- 6. Refer to finish schedule / legends.
- 7. Confirm w/ Owner for A/V, telecommunications, fire alarm, and security documents (by others) for all related equipment including, but not limited to, TVs, projectors, projection screens, speakers, a/v, data, fire alarm, and security specific devices, and cabling. All conduit, floor boxes and junction boxes are part of the work as shown and shall be coordinated with the Architect, Owner, and Owner's specialty contractor(s) prior to commencing work. All systems by Owner shall be coordinated by the General Contractor and submitted for review immediately following the notice to proceed so as not to delay the progress of work.

WALL LEGEND



WALL TYPE

WOOD FRAME WALL

where no tag is provided, bid wall types B2 typ interior, and W1 typ exterior and verify with Architect

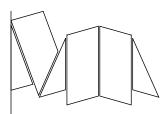
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- Fill all stud cavities with insulation thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KEYNOTES

| IV L I | | |
|--------|--|------------------------------------|
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| 5 | GLASS WATER CLOSET ENCLOSURE & DR | |
| 6 | RECESSED DRYERBOX | REF. MECH. |
| 7 | RECESSED WASHER BOX | REF. PLBG. |
| 8 | STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS) | REF. SPECS |
| 9 | FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE; | REF. MLWK. SPECS REF. INT ELEV. |
| 10 | MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER | REF. MLWK. SPECS |
| 11 | SIMILAR BUNK CONDITION | A5.12 |
| 12 | MILLWORK | REF. MLWK. SPECS |

GENERAL ROOF PLAN NOTES

- 1. Refer to general information sheet for general notes, abbreviations, symbols, legends and alternates.
- 2. All roof mounted equipment to be placed with special attention to visibility and sight lines, and are to be confirmed in the field with the Architect prior to starting work. Field coordinate height of all mechanical screens to ensure all roof-mounted equipment is fully screened.
- Vent pipes and all other roof penetrations shall be planned carefully prior to rough-in. Consolidate, size, and locate as inconspicuously as possible, with heights as per code-minimum requirements - provide fabricated metal shroud to screen penetrations from view; match roofing material.
- 4. At sloped metal roofs, wrap and/or clad non-metal items to match material and finish of roofing where metal shroud cannot be provided, such as chimneys.



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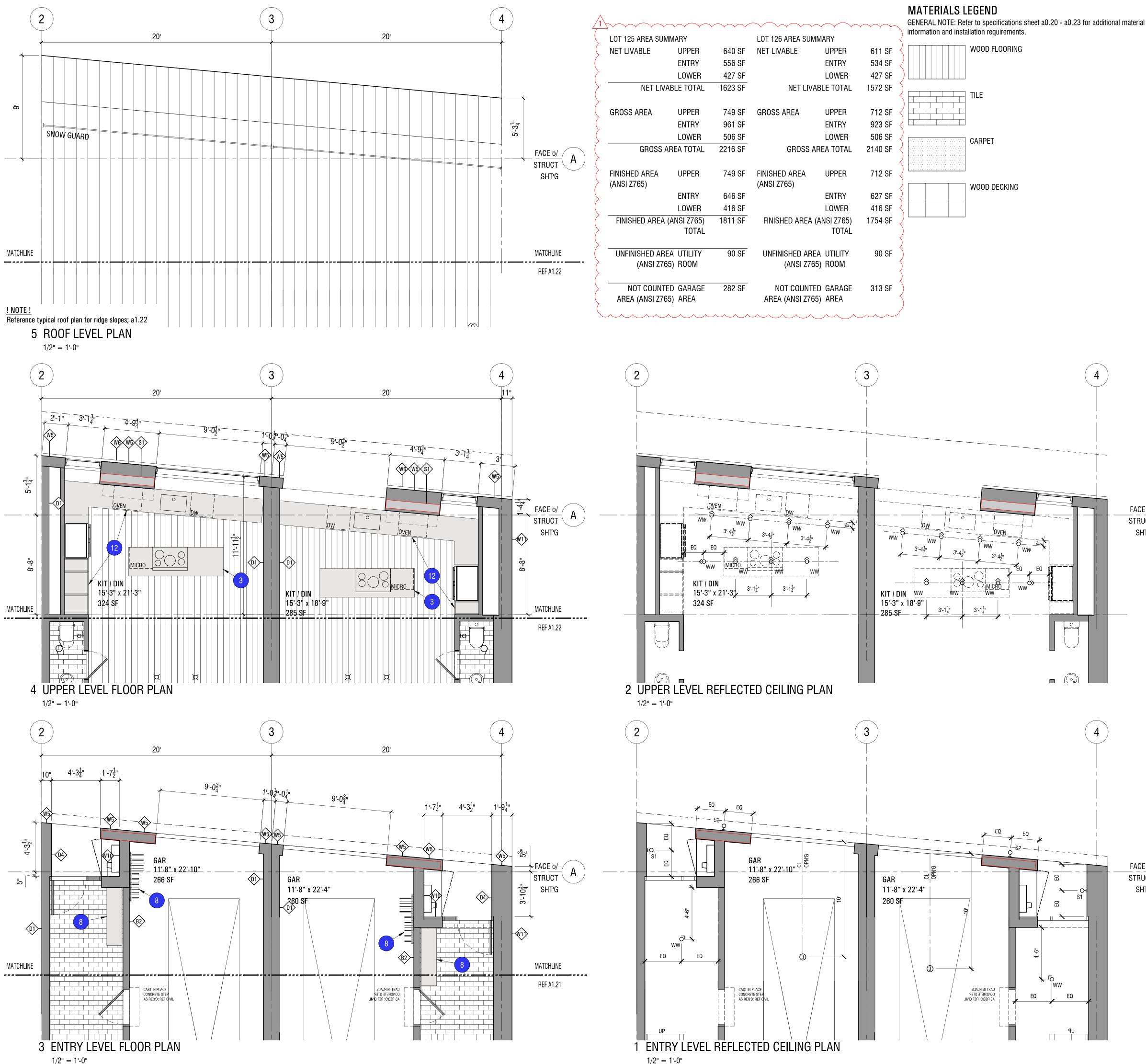
SHEAR WALL



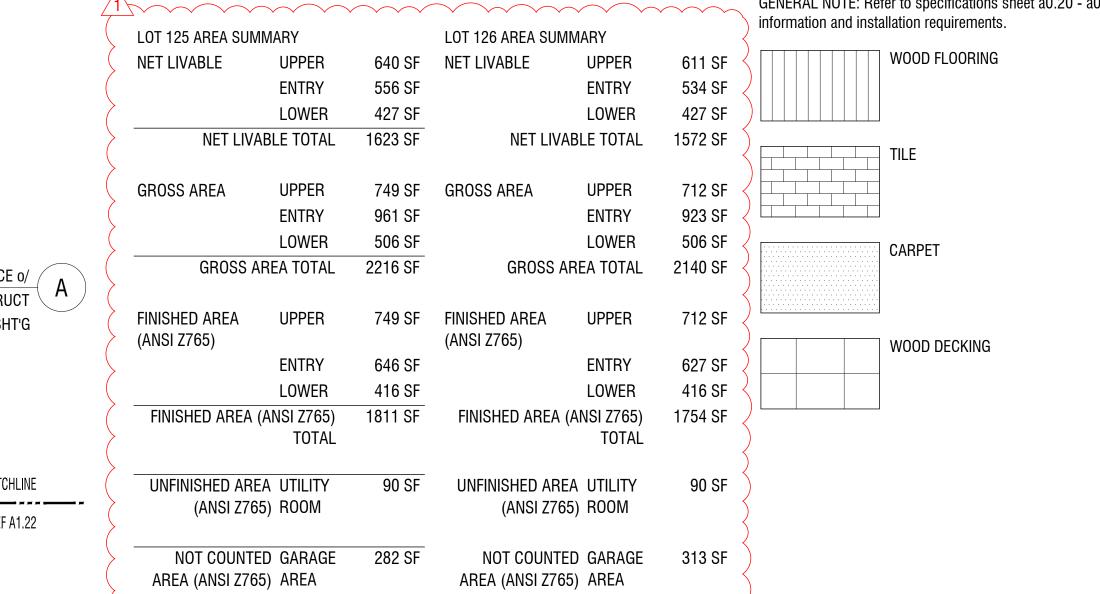


1/4" = 1'-0" scale

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4

4

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FACE o/

STRUCT

SHT'G

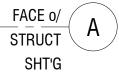
WOOD FRAME WALL

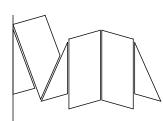
WALL TYPE

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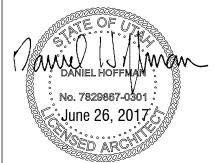
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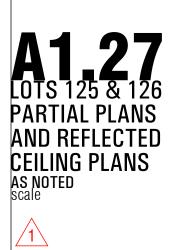
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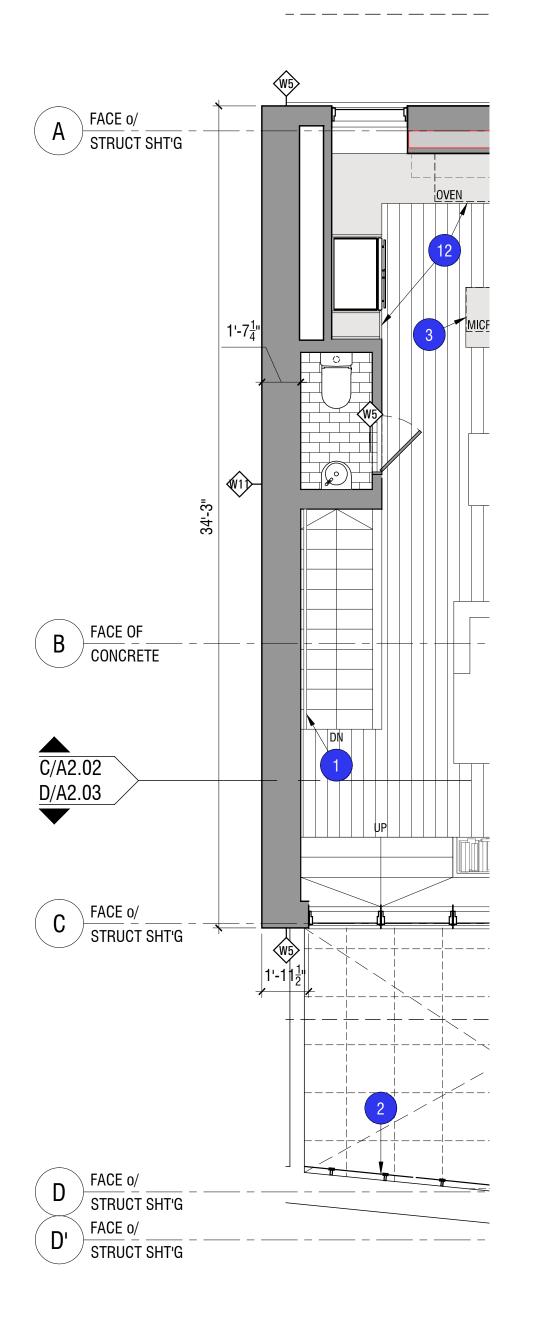
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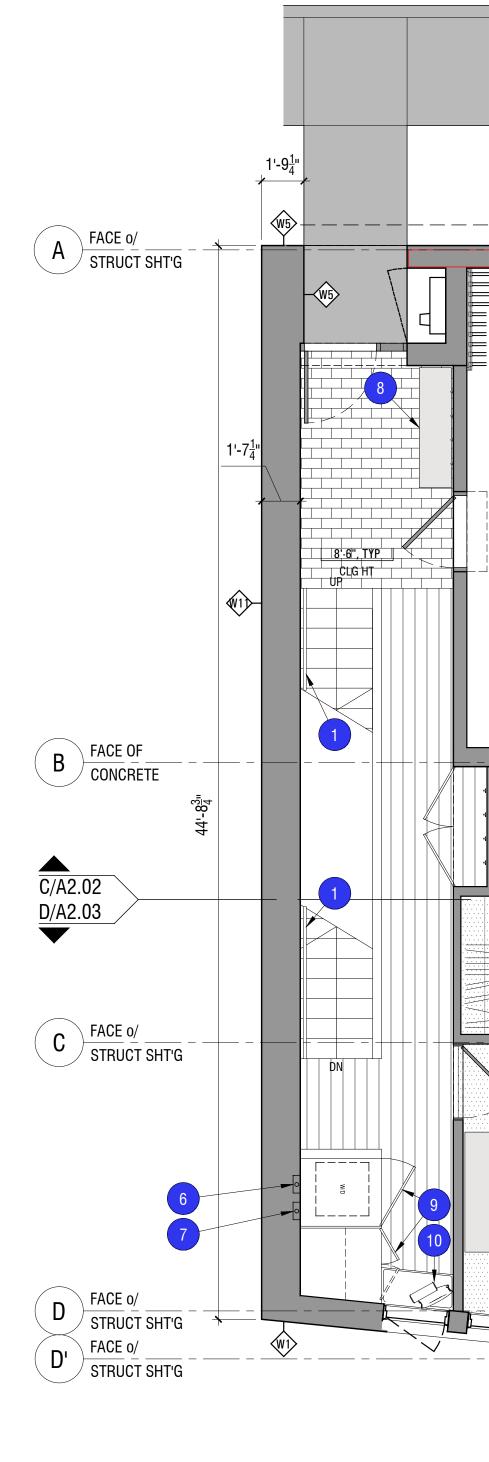




PERMIT SET phase / rev **2017.06.01** date

SHEAR WALL



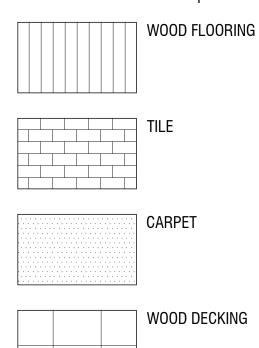


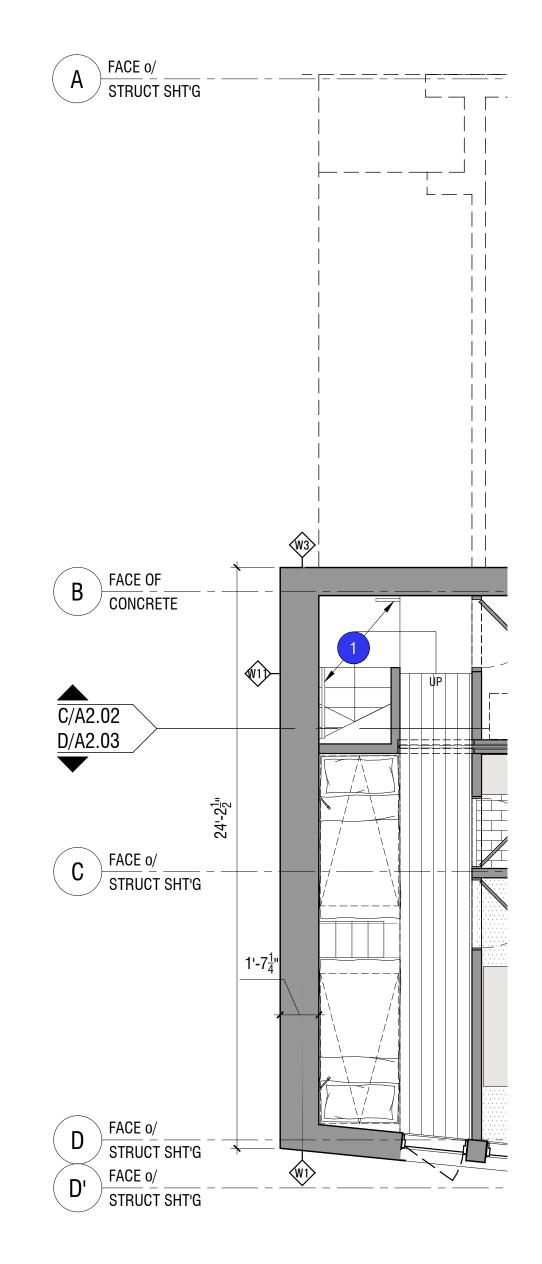
3 UPPER LEVEL FLOOR PLAN 1/2" = 1'-0"

2 ENTRY LEVEL FLOOR PLAN 1/2" = 1'-0"

MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.





LOWER LEVEL FLOOR PLAN 1/2" = 1'-0"

GENERAL PLAN NOTES

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WALL LEGEND



WALL TYPE where no tag is provided, bid wall types B2 typ

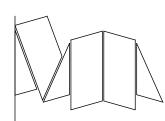
WOOD FRAME WALL

interior, and W1 typ exterior and verify with Architect

- Nominal 2x interior (non-loadbearing) wood framing @ 24" o.c. max., or as noted. At walls with tile, studs to be @ 16" o.c. max. Plate size to match stud size except where noted. All load-bearing walls to be framed as per structural drawings. Wood in contact with concrete to be pressure-treated, provide sill sealer below all exterior wall sill plates.
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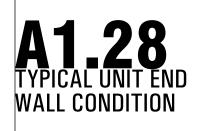
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SHEAR WALL





1/4" = 1'-0" scale



GENERAL REFLECTED CEILING PLAN NOTES

1. Refer to electrical drawings for lighting fixture schedule, switching and additional information.

- 2. Refer to mechanical drawings for diffuser/grille schedule and additional info.
- 3. Dimensions from walls are taken from face of finish, typical unless noted otherwise.
- 4. Dimensions to fixtures are provided to centerline of fixture, typical unless noted otherwise.
- 5. Final locations of access panels to be coordinated in field prior to commencement of ceiling work.
- 6. Refer to structural framing plan for structure layout and dimensional controls. NOTE TO GC: Coordinate joist layout with recessed fixtures to ensure alignments as indicated make provisions for additional framing members as required to maintain fixture locations. Consult with Architect prior to proceeding with work where conflicts occur between fixture locations as dimensioned and field verified joist locations.
- 7. All ceiling-mounted fixtures, devices, and other elements are to be located with careful attention to centering and alignment. Any elements not indicated, but required to be installed are to be centered on other ceiling features - review with Architect prior to proceeding with work.

FACE o/ (

FACE OF CONCRETE B

C/A2.02

D/A2.03

- FACE 0/ STRUCT SHT'G

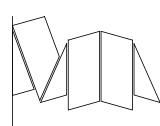
LIGHTING FIXTURE SCHEDULE

| | TAG | MTG. | MFR. | CATALOG No. | VOLT | LAMPS | REMARKS |
|---|--------|---------|------------------|--|------|-------|--|
| | WW | REC | ACULUX | 3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE | 120 | LED | ADJ. DOWNLIGHT |
| | WWE | REC | ACULUX | 3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE | 120 | LED | WET LOCATION ADJ. DOWNLIGHT |
| | SL | REC | BEGA | 22 230, WHITE FINISH w/ REMOTE DRIVER | 120 | LED | STEP LIGHT |
| | ML | WALL | LEUCOS | VITTORIA P2 LED SATIN WHITE/POLISHED CHROME | 120 | LED | MIRROR LIGHT. WALL SCONCE |
| | SH | REC | ACULUX | 3-1/4in, IC43N SERIES w/ WHITE FINISH, WET LOCATION w/ SHOWER TRIM, IC RATED, BI-PIN SOCKET BASE | 120 | LED | Shower trim Downlight |
|) | E# | SURF | AXIS | BOX MINI LED, WHITE FINISH | 120 | LED | strip light. # = Fixture length, in Feet |
| | D# | WALL | AXIS | Box Mini Led, White Finish | 120 | LED | strip light. # = Fixture length, in Feet |
| | WS1 | WALL | WAC LTG | WS-W65607, BRONZE FINISH | 120 | LED | WALL SCONCE w/UP&DN DIST. |
| | WS2 | WALL | CERNO | 'LIBRI' HARDWIRED, w/ ALUM BACKER PLATE | 120 | LED | NON-SWITCHED, NON-DIMMING |
| | S1 | | WAC LTG | WS-W65607, BRONZE FINISH | 120 | LED | WET LOCATION WALL SCONCE |
| | S2 | WALL | louis Poulsen | AJ 50 WALL LED, BLACK FINISH | | LED | WET LOCATION WALL SCONCE, DECORATIVE |
|) | E | PEND | BY E.C. | BY OWNER - INSTALLED | 120 | | DECORATIVE PENDANT |
| / | SF | CLG | DELTA LIGHT | TWEETER ON 2 REO 3033 DIM1 | 120 | LED | CEILING SURFACE MT w/ FAN-RATED J-BOX |
| | DS | REC | | BY CONTRACTOR | | | DOOR SWITCH |
| | 000 | SURF | | BY CONTRACTOR | | | OCCUPANCY SENSOR |
| | LIGHTI | NG FIXT | URE SCHEDL | LE GENERAL NOTES: | | | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

ALL LIGHTS TO BE PROVIDED WITH DIMMING CAPABILITY AND DIMMER SWITCHES. ALL L.E.D. LAMPS TO BE 3000K, MINIMUM CRI OF 82, UNLESS NOTED OTHERWISE ALL WALL WASH AND SHOWER FIXTURES TO BE PROVIDED w/ LED BI-PIN SOCKET LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'

FACE o/ STRUCT SHT'G FACE o/ (D' STRUCT SHT'G



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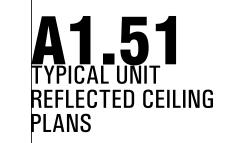
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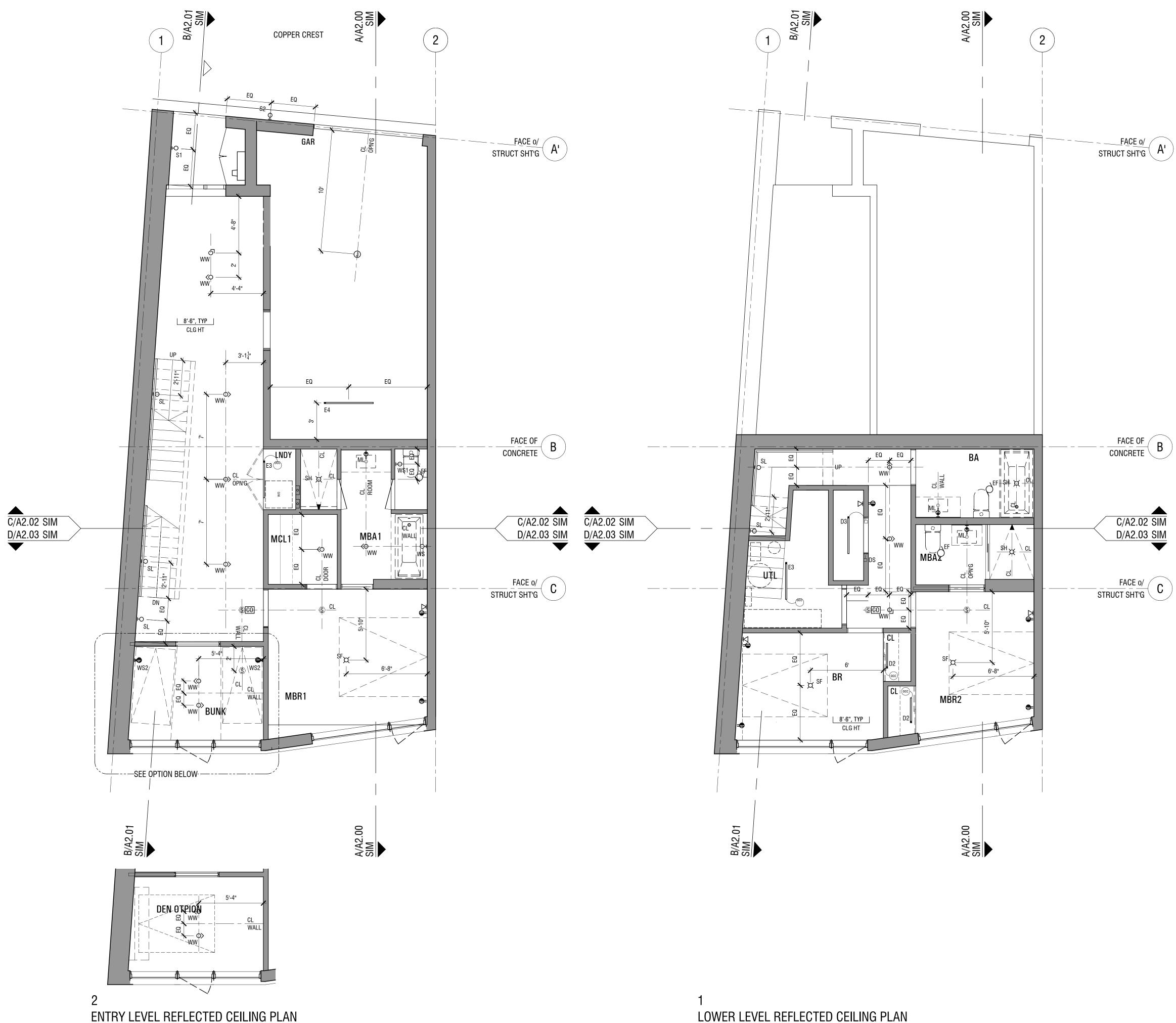
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LANDSCAPE angvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





1/4" = 1'-0" scale





LOWER LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

1. Refer to electrical drawings for lighting fixture schedule, switching and additional information.

- 2. Refer to mechanical drawings for diffuser/grille schedule and additional info.
- 3. Dimensions from walls are taken from face of finish, typical unless noted otherwise.
- 4. Dimensions to fixtures are provided to centerline of fixture, typical unless noted otherwise.
- 5. Final locations of access panels to be coordinated in field prior to commencement of ceiling work.
- 6. Refer to structural framing plan for structure layout and dimensional controls. NOTE TO GC: Coordinate joist layout with recessed fixtures to ensure alignments as indicated make provisions for additional framing members as required to maintain fixture locations. Consult with Architect prior to proceeding with work where conflicts occur between fixture locations as dimensioned and field verified joist locations.
- 7. All ceiling-mounted fixtures, devices, and other elements are to be located with careful attention to centering and alignment. Any elements not indicated, but required to be installed are to be centered on other ceiling features - review with Architect prior to proceeding with work.

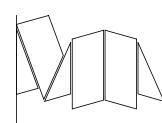
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LIGHTING FIXTURE SCHEDULE

| TAG | MTG. | MFR. | CATALOG No. | VOLT | LAMPS | REMARKS |
|-------|--------|---------|------------------------|------|-------|--------------------|
| WW | REC | ACULUX | 3-1/4in, IC43N SERIES | 120 | LED | ADJ. DOWNLIGHT |
| | | | ADJUSTABLE w/ WHITE | | | |
| | | | FINISH, WET LOCATION, | | | |
| | | | IC RATED, BI-PIN | | | |
| | | | SOCKET BASE | | | |
| WWE | REC | ACULUX | 3-1/4in, IC43N SERIES | 120 | LED | WET LOCATION ADJ. |
| | | | ADJUSTABLE w/ WHITE | | | DOWNLIGHT |
| | | | FINISH, WET LOCATION, | | | |
| | | | IC RATED, BI-PIN | | | |
| | | | SOCKET BASE | | | |
| SL | REC | BEGA | 22 230, WHITE FINISH | 120 | LED | STEP LIGHT |
| | | | w/ REMOTE DRIVER | | | |
| ML | WALL | LEUCOS | VITTORIA P2 LED SATIN | 120 | LED | MIRROR LIGHT. |
| | | | WHITE/POLISHED | | | WALL SCONCE |
| | | | CHROME | | | |
| SH | REC | ACULUX | 3-1/4in, IC43N SERIES | 120 | LED | SHOWER TRIM |
| | | | W/ WHITE FINISH, WET | | | DOWNLIGHT |
| | | | LOCATION w/ SHOWER | | | |
| | | | TRIM, IC RATED, BI-PIN | | | |
| | | | SOCKET BASE | | | |
| E# | SURF | AXIS | BOX MINI LED, WHITE | 120 | LED | STRIP LIGHT. # = |
| | | | FINISH | | | FIXTURE LENGTH, IN |
| | | | - | | | FEET |
| D# | WALL | AXIS | BOX MINI LED, WHITE | 120 | LED | STRIP LIGHT. # = |
| | | | FINISH | | | FIXTURE LENGTH, IN |
| 14/04 | | | | 100 | | FEET |
| WS1 | WALL | WAC LTG | WS-W65607, BRONZE | 120 | LED | WALL SCONCE |
| | | 055110 | FINISH | 100 | | w/UP&DN DIST. |
| WS2 | WALL | CERNO | 'LIBRI' HARDWIRED, w/ | 120 | LED | NON-SWITCHED, |
| | | | ALUM BACKER PLATE | 100 | . = 5 | NON-DIMMING |
| S1 | WALL | WAC LTG | WS-W65607, BRONZE | 120 | LED | WET LOCATION WALL |
| | 14/411 | | FINISH | 100 | | SCONCE |
| S2 | WALL | LOUIS | AJ 50 WALL LED, BLACK | 120 | LED | WET LOCATION WALL |
| | DEND | POULSEN | FINISH | 100 | | SCONCE, DECORATIVE |
| Е | PEND | | BY OWNER - INSTALLED | 120 | INCAN | DECORATIVE |
| 05 | 01.0 | BY E.C. | | 100 | | PENDANT |
| SF | CLG | DELTA | TWEETER ON 2 REO | 120 | LED | CEILING SURFACE MT |
| | | LIGHT | 3033 DIM1 | | | w/ FAN-RATED J-BOX |
| | | | | | | |
| DS | REC | | BY CONTRACTOR | | | DOOR SWITCH |
| 000 | SURF | | BY CONTRACTOR | | | OCCUPANCY SENSOR |
| | | | | | | |
| | | | ILE CENEDAL NOTES | | | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

ALL LIGHTS TO BE PROVIDED WITH DIMMING CAPABILITY AND DIMMER SWITCHES. ALL L.E.D. LAMPS TO BE 3000K, MINIMUM CRI OF 82, UNLESS NOTED OTHERWISE ALL WALL WASH AND SHOWER FIXTURES TO BE PROVIDED w/ LED BI-PIN SOCKET LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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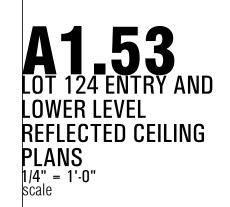
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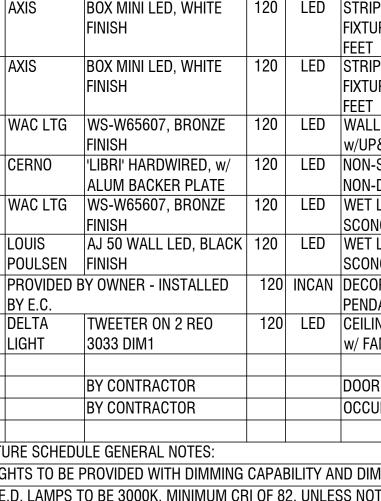
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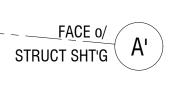
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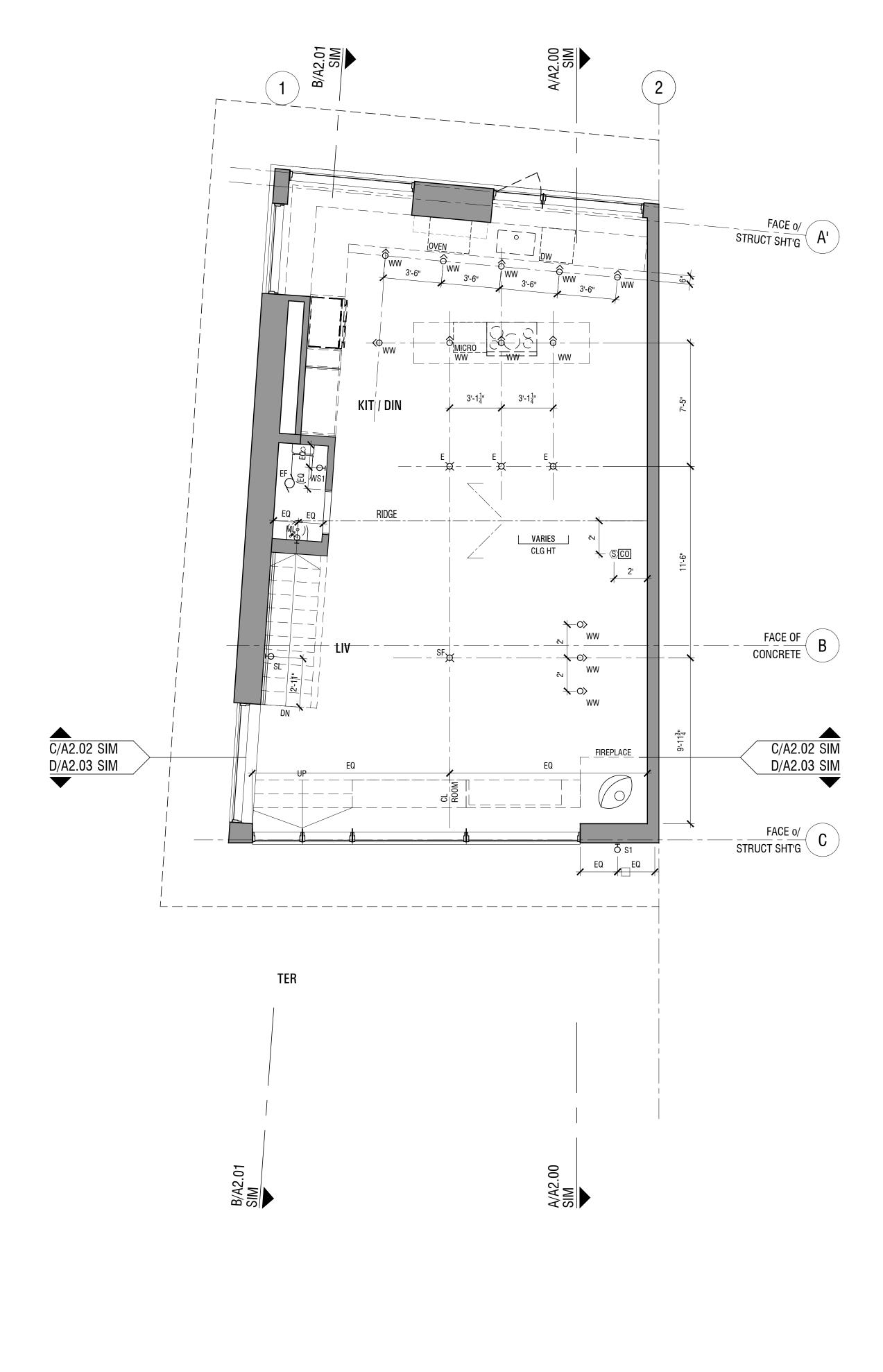
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1 LOWER LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

1. Refer to electrical drawings for lighting fixture schedule, switching and additional information.

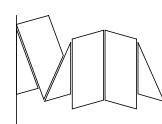
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- Final locations of access panels to be coordinated in field prior to commencement of ceiling work.
- 6. Refer to structural framing plan for structure layout and dimensional controls. NOTE TO GC: Coordinate joist layout with recessed fixtures to ensure alignments as indicated make provisions for additional framing members as required to maintain fixture locations. Consult with Architect prior to proceeding with work where conflicts occur between fixture locations as dimensioned and field verified joist locations.
- 7. All ceiling-mounted fixtures, devices, and other elements are to be located with careful attention to centering and alignment. Any elements not indicated, but required to be installed are to be centered on other ceiling features review with Architect prior to proceeding with work.

| LIGH | TING | FIXTURE | SCHEDUL |
|------|------|---------|---------|
| TAC | MTC | MED | |

| TAG | MTG. | MFR. | CATALOG No. | | | REMARKS |
|-----|---------|---------|------------------------|-----|-------|---------------------|
| WW | REC | ACULUX | 3-1/4in, IC43N SERIES | 120 | LED | ADJ. DOWNLIGHT |
| | | | ADJUSTABLE w/ WHITE | | | |
| | | | FINISH, WET LOCATION, | | | |
| | | | IC RATED, BI-PIN | | | |
| | | | SOCKET BASE | | | |
| WWE | REC | ACULUX | 3-1/4in, IC43N SERIES | 120 | LED | WET LOCATION ADJ. |
| | | | ADJUSTABLE w/ WHITE | | | DOWNLIGHT |
| | | | FINISH, WET LOCATION, | | | |
| | | | IC RATED, BI-PIN | | | |
| | | | SOCKET BASE | | | |
| SL | REC | BEGA | 22 230, WHITE FINISH | 120 | LED | STEP LIGHT |
| | | | w/ REMOTE DRIVER | | | |
| ML | WALL | LEUCOS | VITTORIA P2 LED SATIN | 120 | LED | MIRROR LIGHT. |
| | | | WHITE/POLISHED | | | WALL SCONCE |
| | | | CHROME | | | |
| SH | REC | ACULUX | 3-1/4in, IC43N SERIES | 120 | LED | SHOWER TRIM |
| | | | w/ WHITE FINISH, WET | | | DOWNLIGHT |
| | | | LOCATION w/ SHOWER | | | |
| | | | TRIM, IC RATED, BI-PIN | | | |
| | | | SOCKET BASE | | | |
| E# | SURF | AXIS | BOX MINI LED, WHITE | 120 | LED | STRIP LIGHT. $\# =$ |
| | | | FINISH | | | FIXTURE LENGTH, IN |
| | | | | | | FEET |
| D# | WALL | AXIS | BOX MINI LED, WHITE | 120 | LED | STRIP LIGHT. $\# =$ |
| | | | FINISH | | | Fixture Length, in |
| | | | | | | FEET |
| WS1 | WALL | WAC LTG | WS-W65607, BRONZE | 120 | LED | WALL SCONCE |
| | 14/611 | 055110 | FINISH | 100 | | w/UP&DN DIST. |
| WS2 | WALL | CERNO | 'LIBRI' HARDWIRED, w/ | 120 | LED | NON-SWITCHED, |
| | | | ALUM BACKER PLATE | | | NON-DIMMING |
| S1 | WALL | WAC LTG | WS-W65607, BRONZE | 120 | LED | WET LOCATION WALL |
| | | | FINISH | | | SCONCE |
| S2 | WALL | LOUIS | AJ 50 WALL LED, BLACK | 120 | LED | WET LOCATION WALL |
| | | POULSEN | FINISH | | | SCONCE, DECORATIVE |
| Е | PEND | | BY OWNER - INSTALLED | 120 | INCAN | DECORATIVE |
| | | BY E.C. | | | | PENDANT |
| SF | CLG | DELTA | TWEETER ON 2 REO | 120 | LED | CEILING SURFACE MT |
| | | LIGHT | 3033 DIM1 | | | w/ FAN-RATED J-BOX |
| | | | | | | |
| DS | REC | | BY CONTRACTOR | | | DOOR SWITCH |
| 000 | SURF | | BY CONTRACTOR | | | OCCUPANCY SENSOR |
| | | | | | | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

ALL LIGHTS TO BE PROVIDED WITH DIMMING CAPABILITY AND DIMMER SWITCHES. ALL L.E.D. LAMPS TO BE 3000K, MINIMUM CRI OF 82, UNLESS NOTED OTHERWISE ALL WALL WASH AND SHOWER FIXTURES TO BE PROVIDED w/ LED BI-PIN SOCKET LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. **16-101**

sma project name POWDERCAT

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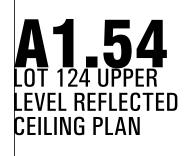
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LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





1/4" = 1'-0" scale



ENTRY LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"

LOWER LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

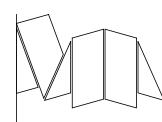
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| LIGH | TING | FIXTURE | SCHEDULE |
|------|------|---------|----------|
| TA O | NATO | | |

| TAG | MTG. | MFR. | CATALOG No. | VOLT | LAMPS | REMARKS |
|-----|------|--|--|------|-------|--|
| WW | REC | ACULUX | 3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE | 120 | LED | ADJ. DOWNLIGHT |
| WWE | REC | ACULUX | 3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE | 120 | LED | WET LOCATION ADJ. DOWNLIGHT |
| SL | REC | BEGA | 22 230, WHITE FINISH w/ REMOTE DRIVER | 120 | LED | STEP LIGHT |
| ML | WALL | LEUCOS | VITTORIA P2 LED SATIN WHITE/POLISHED CHROME | 120 | LED | MIRROR LIGHT. WALL SCONCE |
| SH | REC | ACULUX | 3-1/4in, IC43N SERIES w/ WHITE FINISH, WET LOCATION w/ SHOWER TRIM, IC RATED, BI-PIN SOCKET BASE | 120 | LED | SHOWER TRIM DOWNLIGHT |
| E# | SURF | AXIS | BOX MINI LED, WHITE FINISH | 120 | LED | Strip light. # = Fixture length, in Feet |
| D# | WALL | AXIS | BOX MINI LED, WHITE FINISH | 120 | LED | Strip light. # = Fixture length, in Feet |
| WS1 | WALL | WAC LTG | WS-W65607, BRONZE FINISH | 120 | LED | WALL SCONCE w/UP&DN DIST. |
| WS2 | WALL | CERNO | 'LIBRI' HARDWIRED, w/ Alum backer plate | 120 | LED | NON-SWITCHED, NON-DIMMING |
| S1 | WALL | WAC LTG | WS-W65607, BRONZE FINISH | 120 | LED | WET LOCATION WALL SCONCE |
| S2 | WALL | louis Poulsen | AJ 50 WALL LED, BLACK FINISH | | LED | WET LOCATION WALL SCONCE, DECORATIVE |
| E | PEND | PROVIDED BY OWNER - INSTALLED BY E.C. | | | INCAN | DECORATIVE PENDANT |
| SF | CLG | DELTA LIGHT | TWEETER ON 2 REO 3033 DIM1 | 120 | LED | CEILING SURFACE MT w/ FAN-RATED J-BOX |
| DS | REC | | BY CONTRACTOR | | | DOOR SWITCH |
| 000 | SURF | | BY CONTRACTOR | | | OCCUPANCY SENSOR |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

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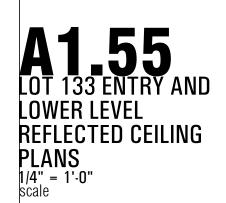
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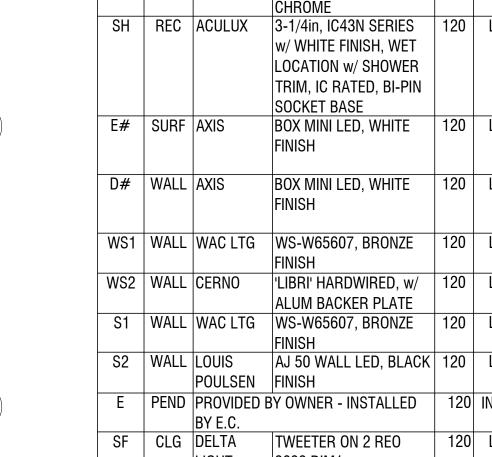
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PERMIT SET phase / rev **2017.06.01** date

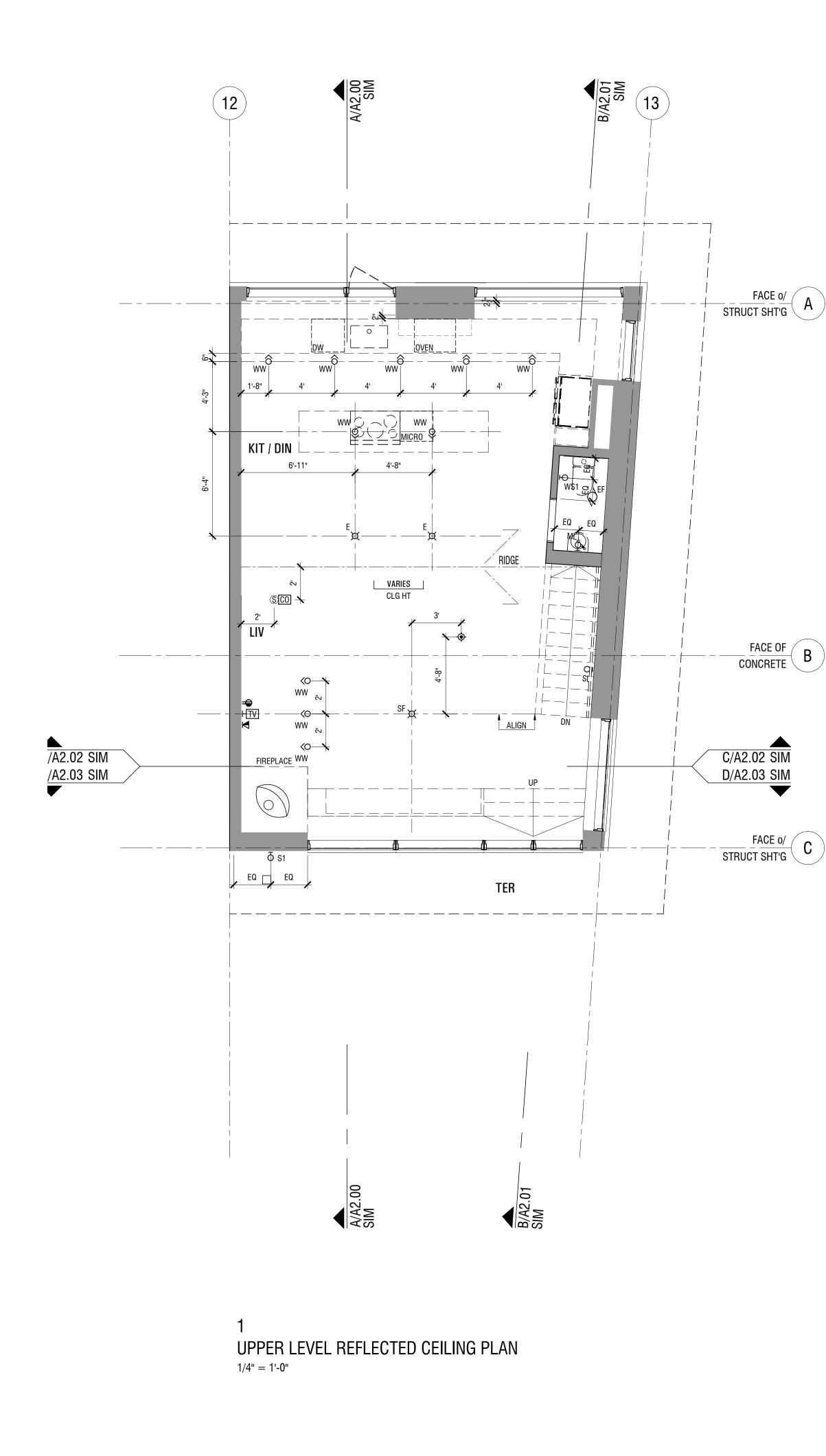








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GENERAL REFLECTED CEILING PLAN NOTES

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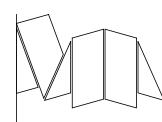
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LIGHTING FIXTURE SCHEDULE

| TAG | MTG. | | CATALOG No. | VOLT | LAMPS | REMARKS |
|-----|------|--|--|------|-------|--|
| WW | REC | ACULUX | 3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE | 120 | LED | ADJ. DOWNLIGHT |
| WWE | REC | ACULUX | 3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE | 120 | LED | WET LOCATION ADJ. DOWNLIGHT |
| SL | REC | BEGA | 22 230, WHITE FINISH w/ REMOTE DRIVER | 120 | LED | STEP LIGHT |
| ML | WALL | LEUCOS | VITTORIA P2 LED SATIN WHITE/POLISHED CHROME | 120 | LED | MIRROR LIGHT. WALL SCONCE |
| SH | REC | ACULUX | 3-1/4in, IC43N SERIES w/ WHITE FINISH, WET LOCATION w/ SHOWER TRIM, IC RATED, BI-PIN SOCKET BASE | 120 | LED | Shower Trim Downlight |
| E# | SURF | AXIS | BOX MINI LED, WHITE FINISH | 120 | LED | STRIP LIGHT. # = FIXTURE LENGTH, IN FEET |
| D# | WALL | AXIS | Box Mini Led, White Finish | 120 | LED | strip light. # = Fixture length, in Feet |
| WS1 | WALL | WAC LTG | WS-W65607, BRONZE FINISH | 120 | LED | WALL SCONCE w/UP&DN DIST. |
| WS2 | WALL | CERNO | 'LIBRI' HARDWIRED, w/ ALUM BACKER PLATE | 120 | LED | NON-SWITCHED, NON-DIMMING |
| S1 | | WAC LTG | WS-W65607, BRONZE FINISH | 120 | LED | WET LOCATION WALL SCONCE |
| S2 | WALL | louis Poulsen | AJ 50 WALL LED, BLACK FINISH | 120 | LED | WET LOCATION WALL SCONCE, DECORATIVE |
| E | PEND | PROVIDED BY OWNER - INSTALLED BY E.C. | | | INCAN | DECORATIVE PENDANT |
| SF | CLG | DELTA LIGHT | TWEETER ON 2 REO 3033 DIM1 | 120 | LED | CEILING SURFACE MT w/ FAN-RATED J-BOX |
| DS | REC | | BY CONTRACTOR | | | DOOR SWITCH |
| 000 | SURF | | BY CONTRACTOR | | | OCCUPANCY SENSOR |

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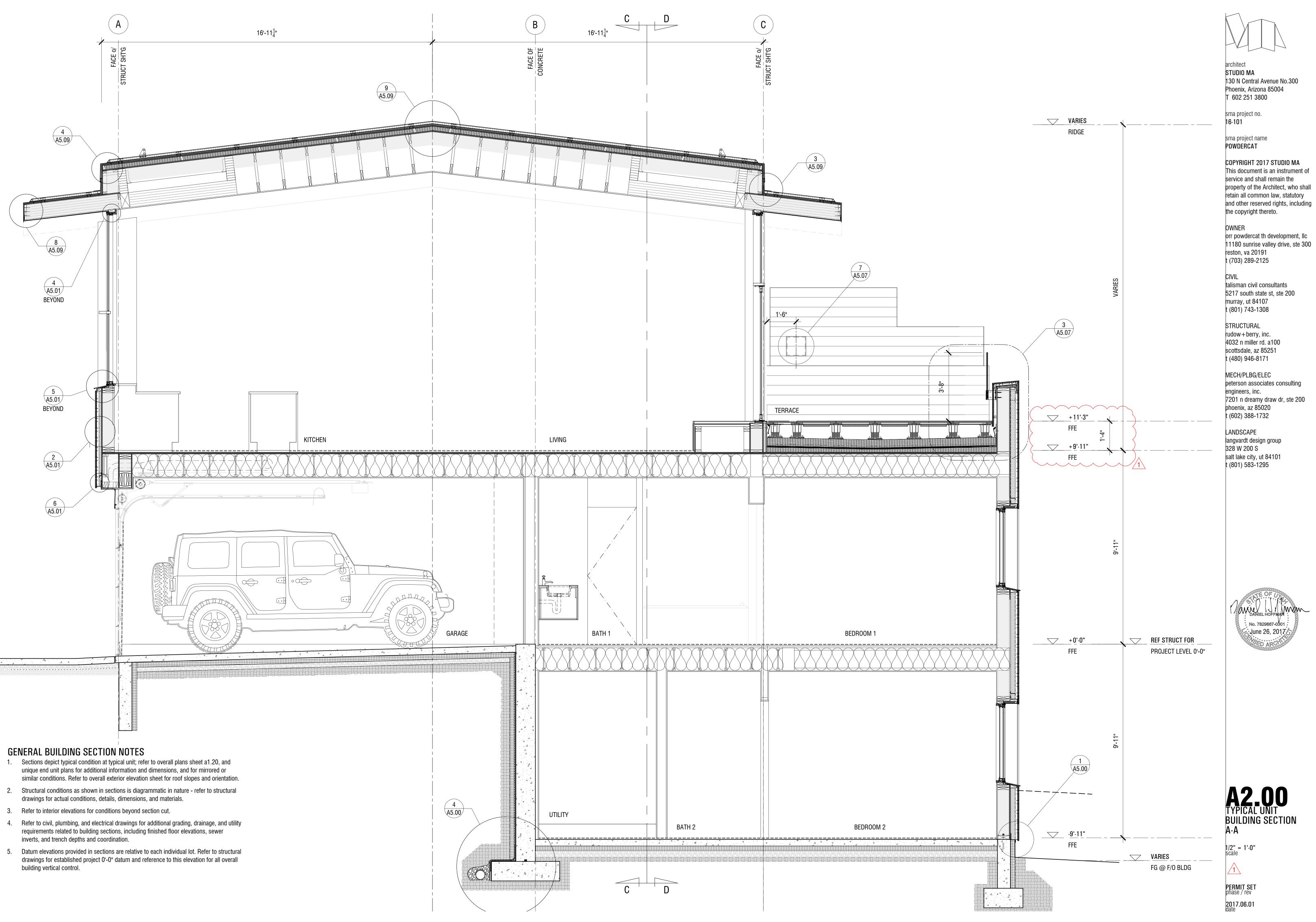
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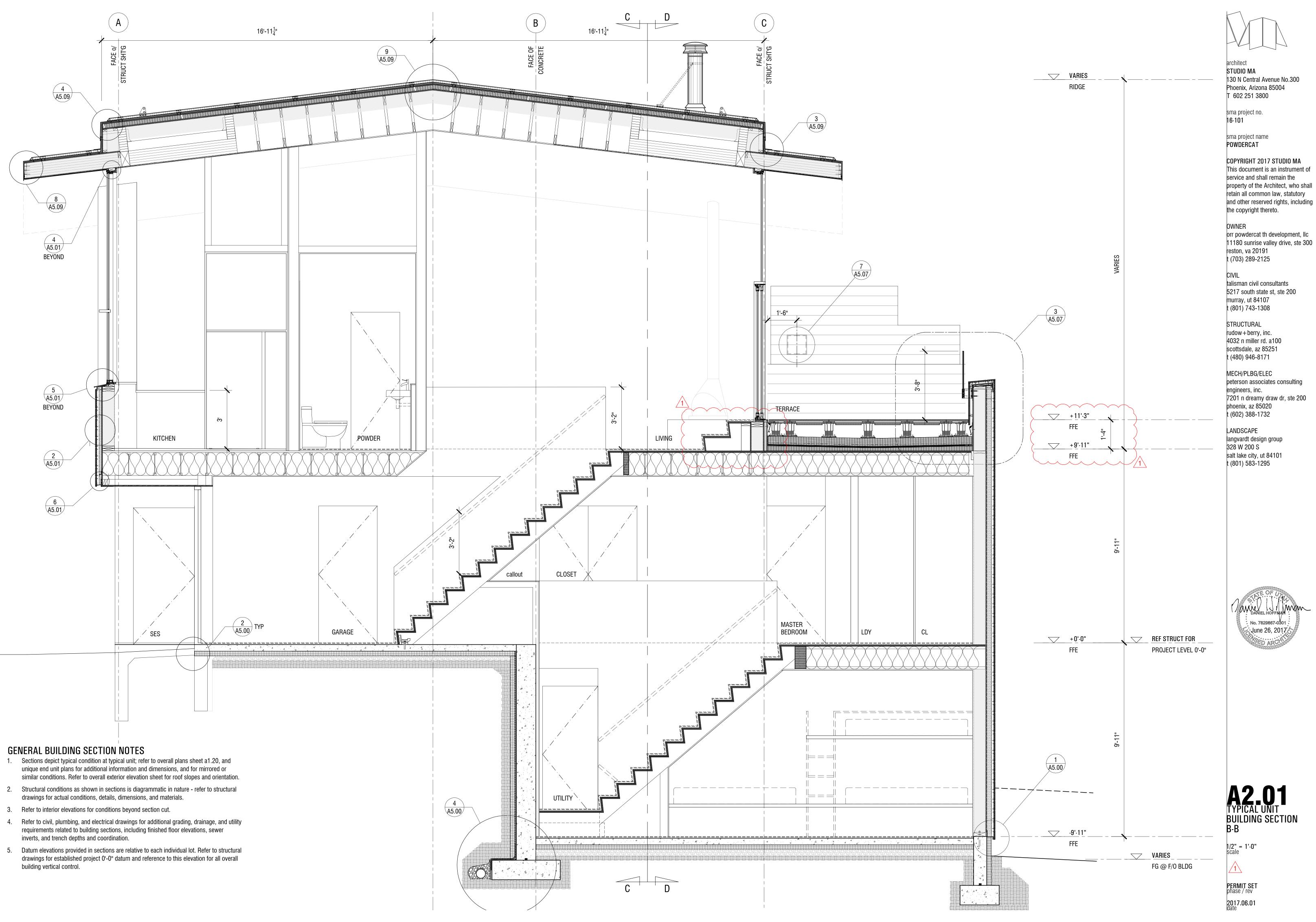
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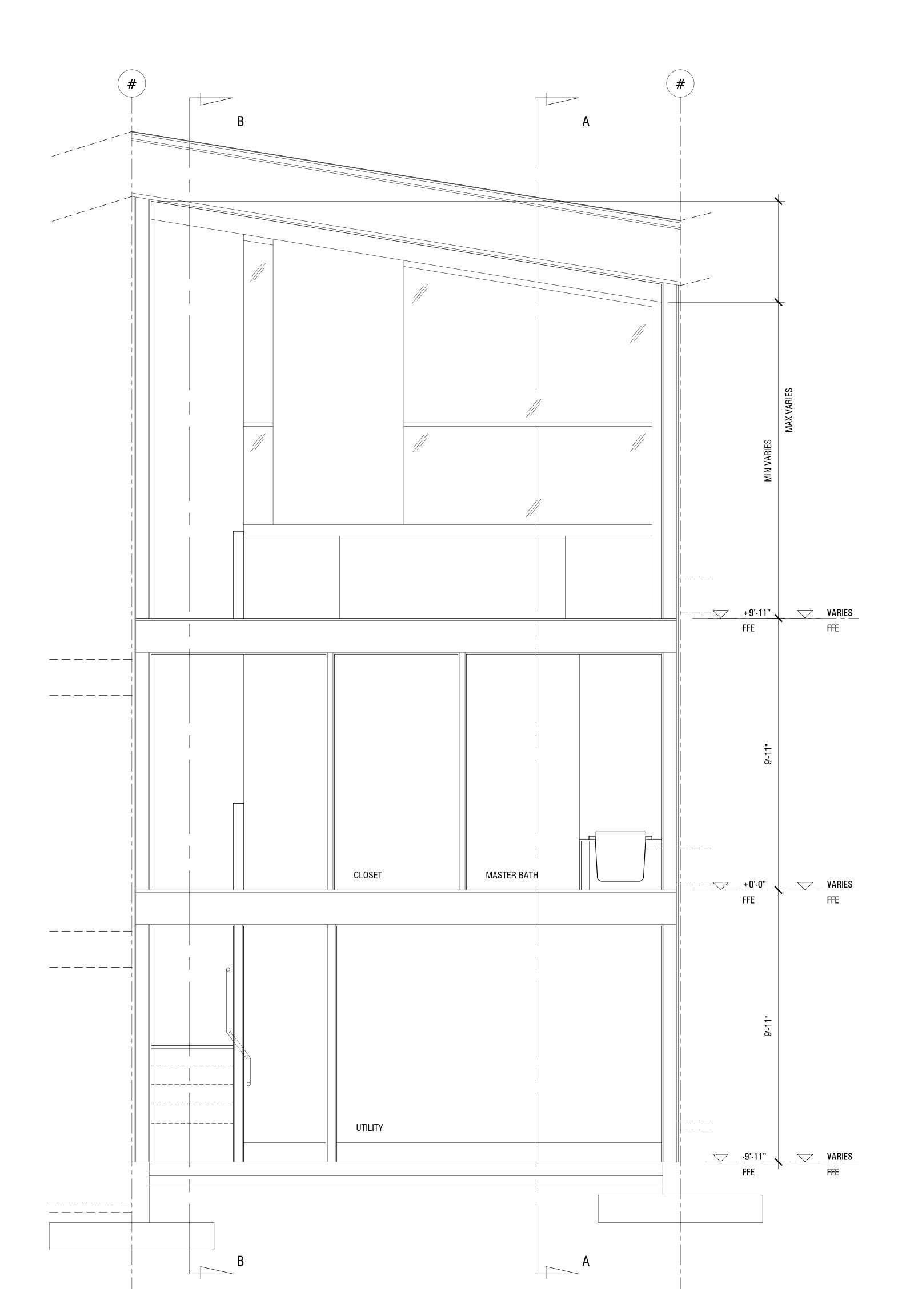




1/4" = 1'-0" scale

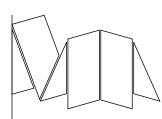






GENERAL BUILDING SECTION NOTES

- 1. Sections depict typical condition at typical unit; refer to overall plans sheet a1.20, and unique end unit plans for additional information and dimensions, and for mirrored or similar conditions. Refer to overall exterior elevation sheet for roof slopes and orientation.
- 2. Structural conditions as shown in sections is diagrammatic in nature refer to structural drawings for actual conditions, details, dimensions, and materials.
- 3. Refer to interior elevations for conditions beyond section cut.
- 4. Refer to civil, plumbing, and electrical drawings for additional grading, drainage, and utility requirements related to building sections, including finished floor elevations, sewer inverts, and trench depths and coordination.
- 5. Datum elevations provided in sections are relative to each individual lot. Refer to structural drawings for established project 0'-0" datum and reference to this elevation for all overall building vertical control.



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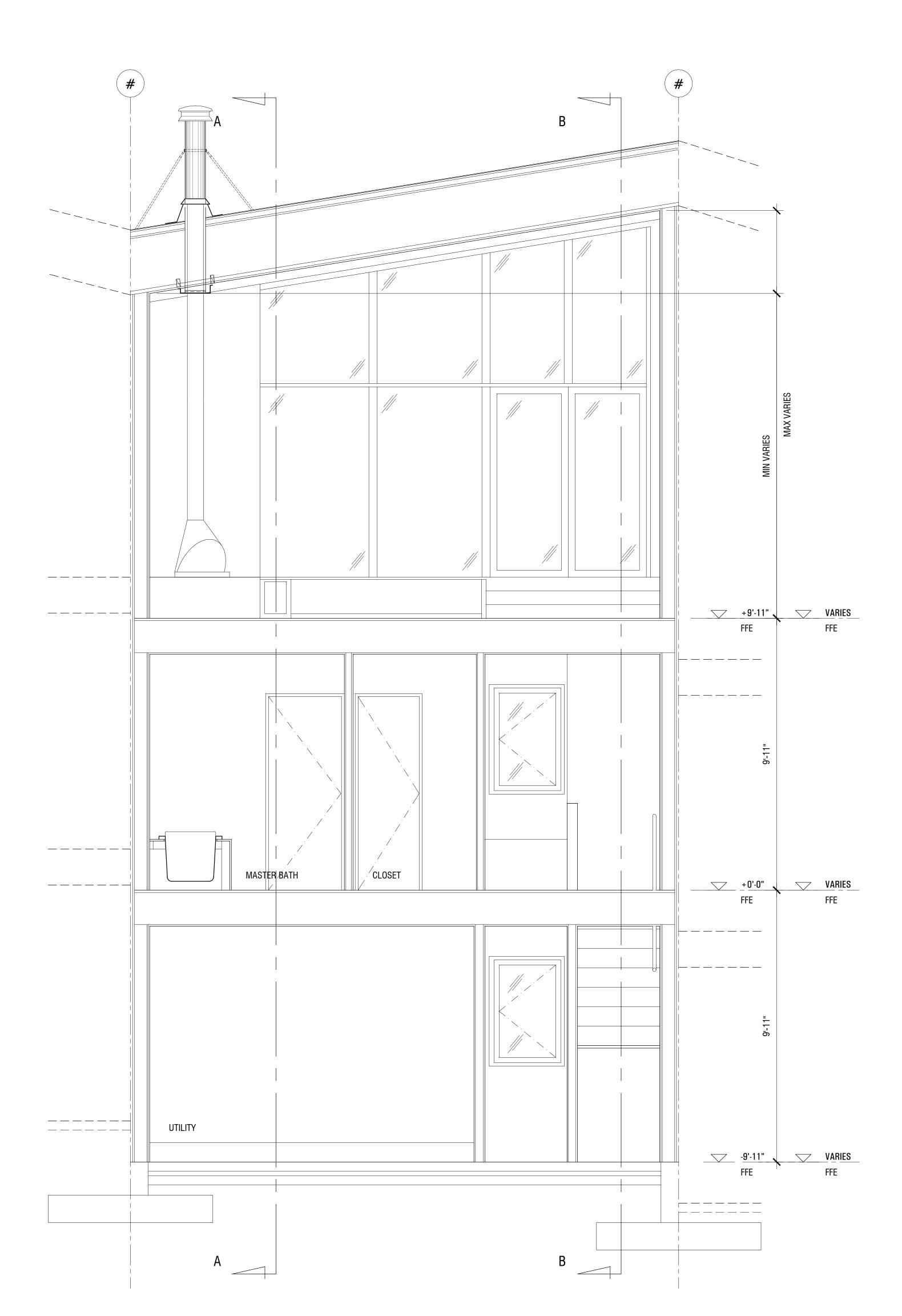
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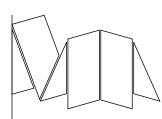


1/2" = 1'-0" scale



GENERAL BUILDING SECTION NOTES

- 1. Sections depict typical condition at typical unit; refer to overall plans sheet a1.20, and unique end unit plans for additional information and dimensions, and for mirrored or similar conditions. Refer to overall exterior elevation sheet for roof slopes and orientation.
- 2. Structural conditions as shown in sections is diagrammatic in nature refer to structural drawings for actual conditions, details, dimensions, and materials.
- 3. Refer to interior elevations for conditions beyond section cut.
- 4. Refer to civil, plumbing, and electrical drawings for additional grading, drainage, and utility requirements related to building sections, including finished floor elevations, sewer inverts, and trench depths and coordination.
- 5. Datum elevations provided in sections are relative to each individual lot. Refer to structural drawings for established project 0'-0" datum and reference to this elevation for all overall building vertical control.



architect **STUDIO MA** 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. **16-101**

sma project name **POWDERCAT**

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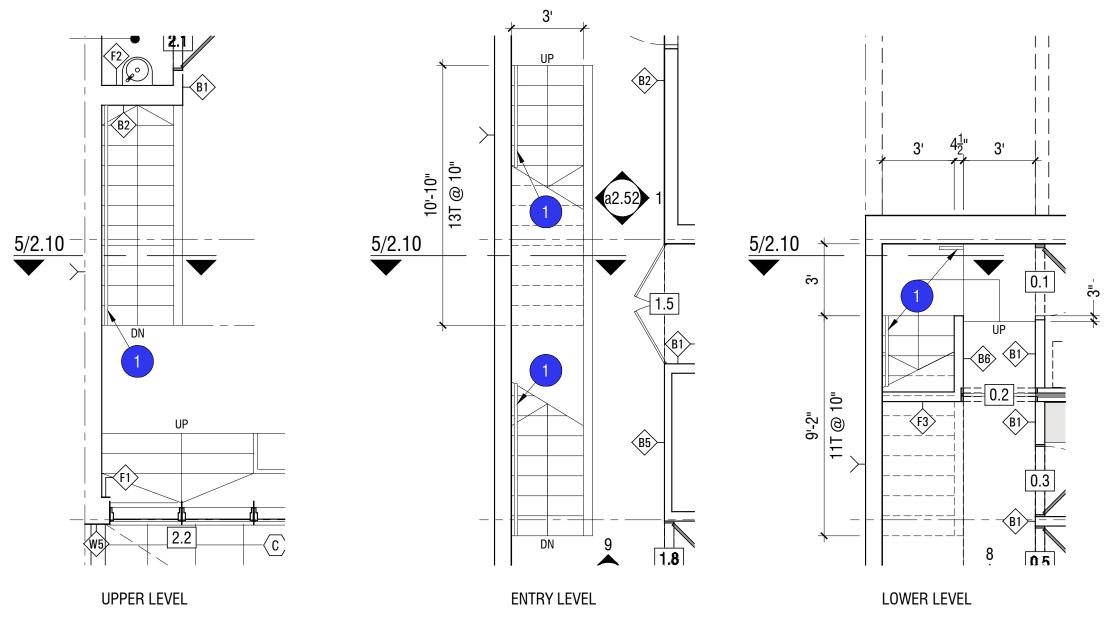
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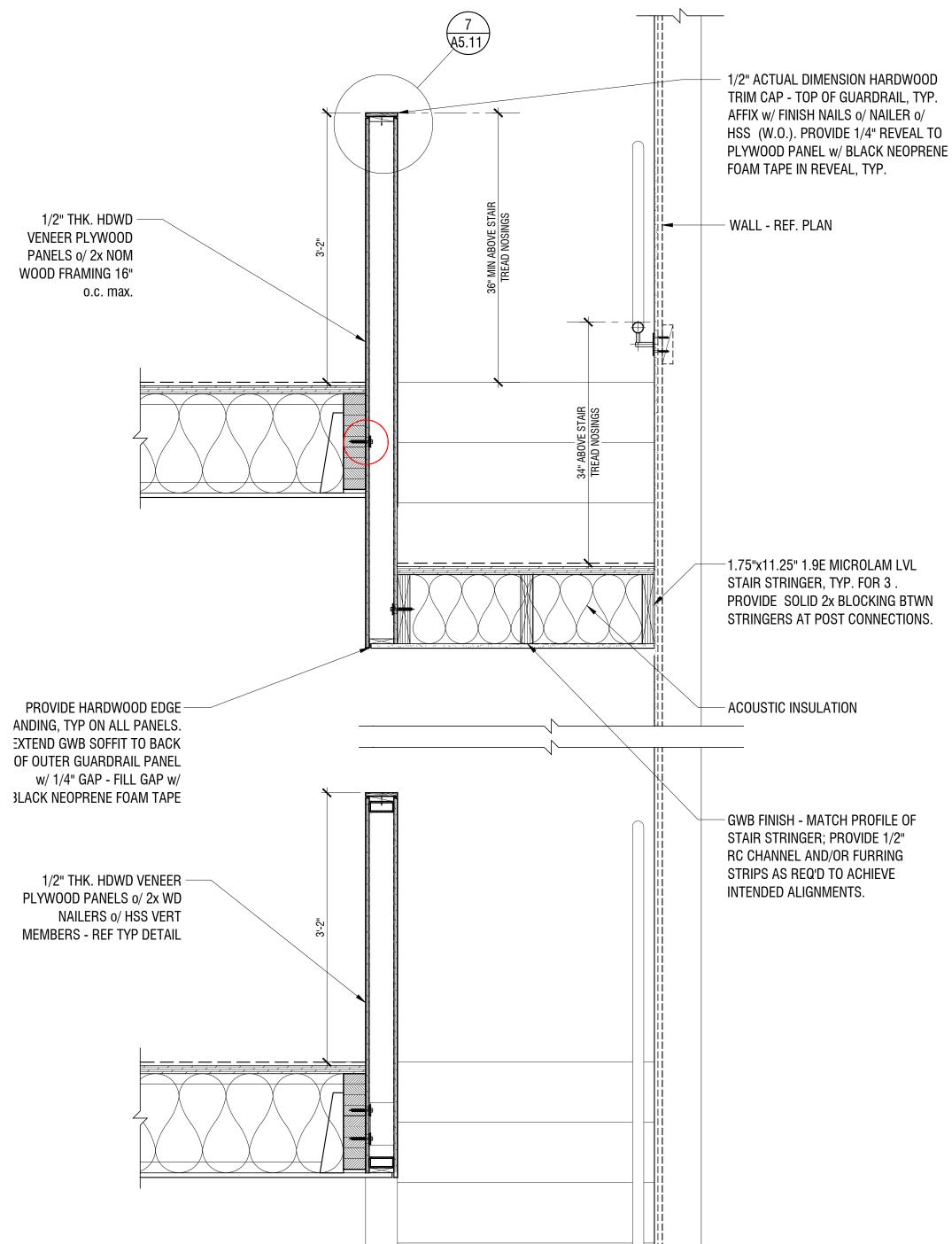


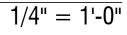


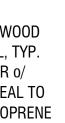
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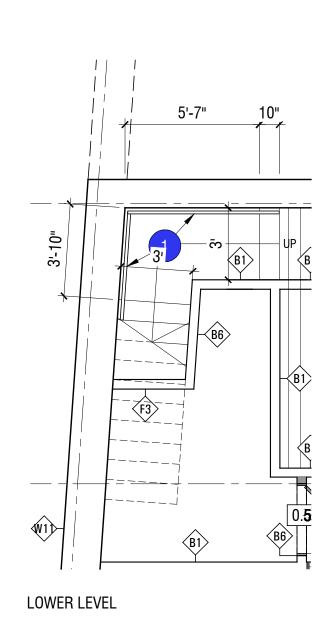








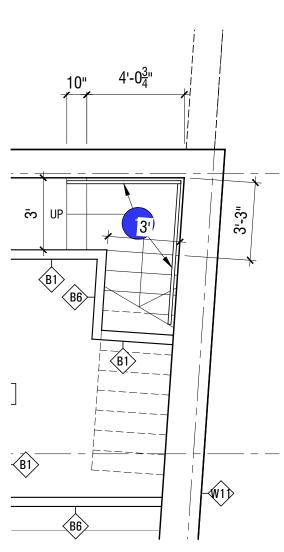




2 LOT 124 - STAIR PLANS



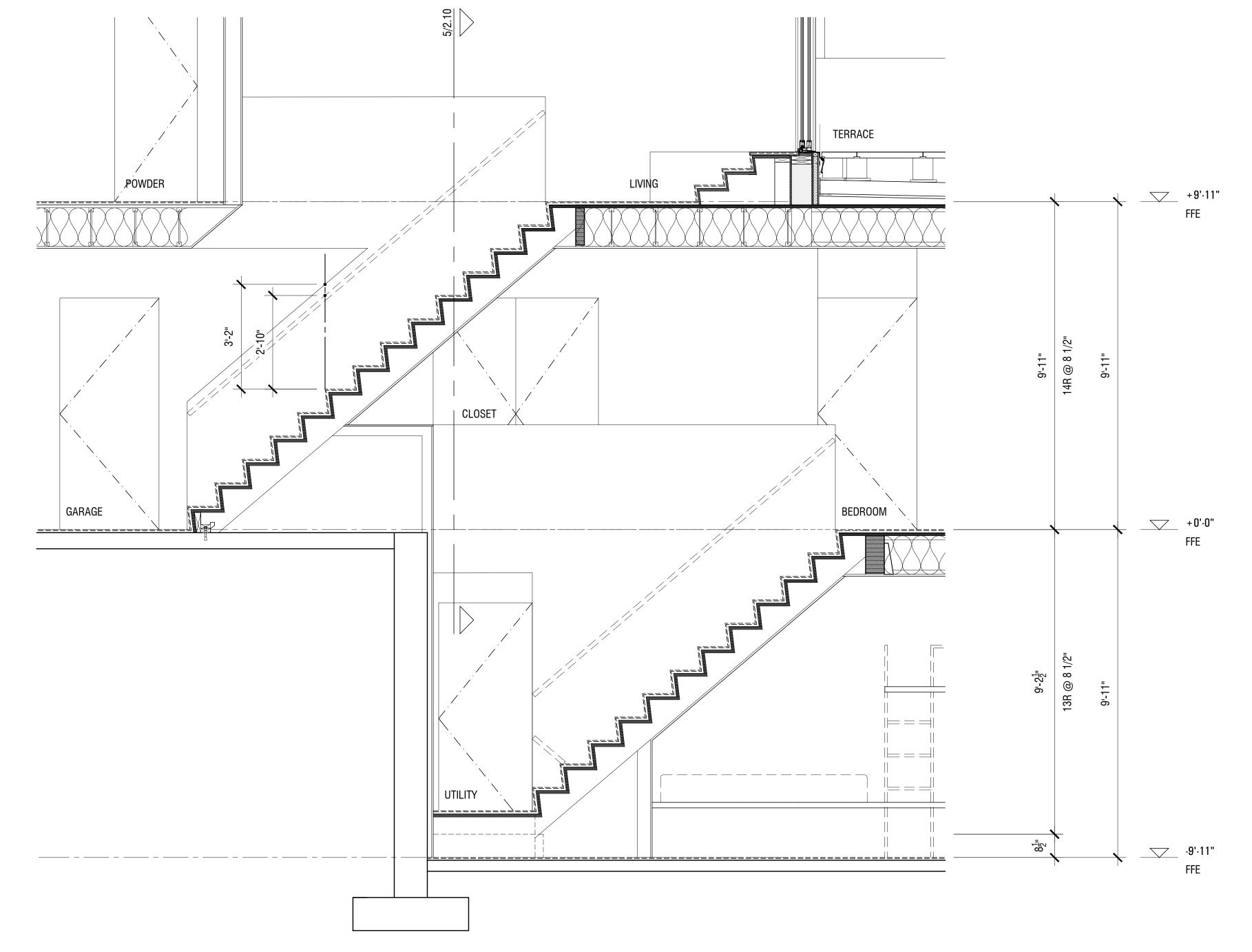
1/4" = 1'-0"



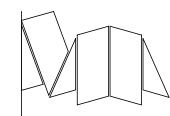
LOWER LEVEL

LOT 133 - STAIR PLANS





TYPICAL STAIR SECTION - LOTS 124 AND 133 SIM. 1" = 1'-0" 4



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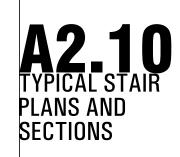
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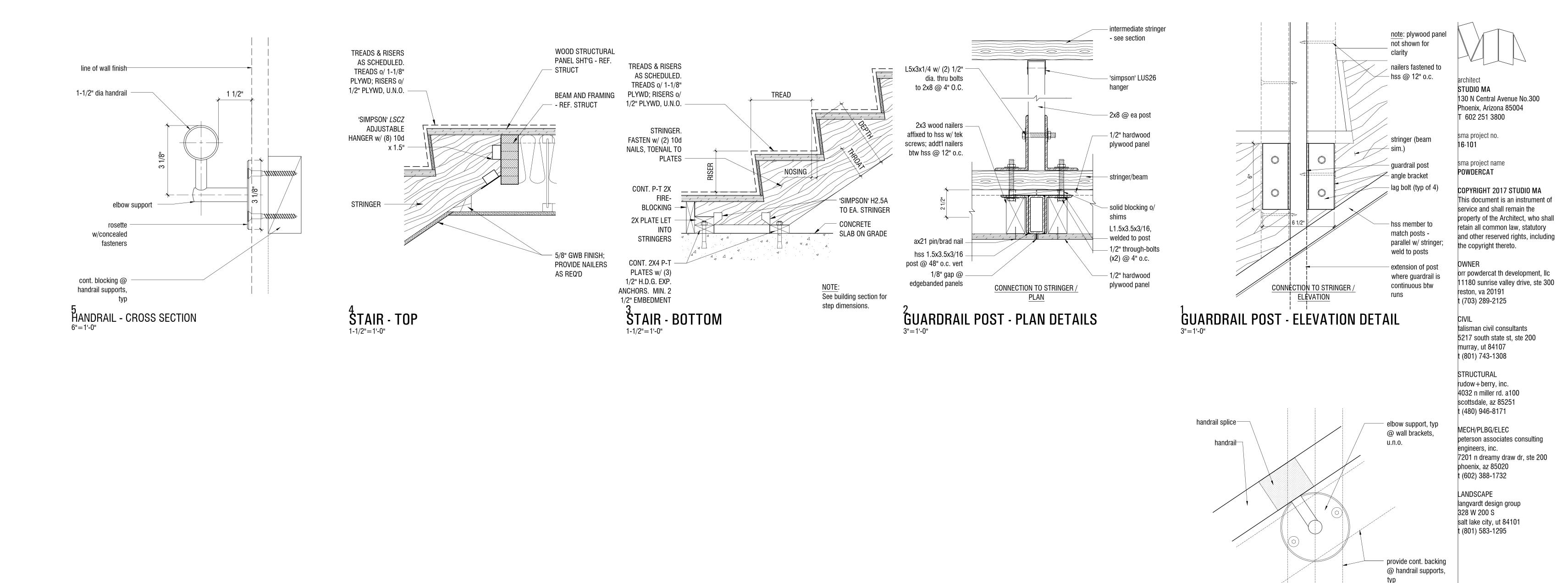
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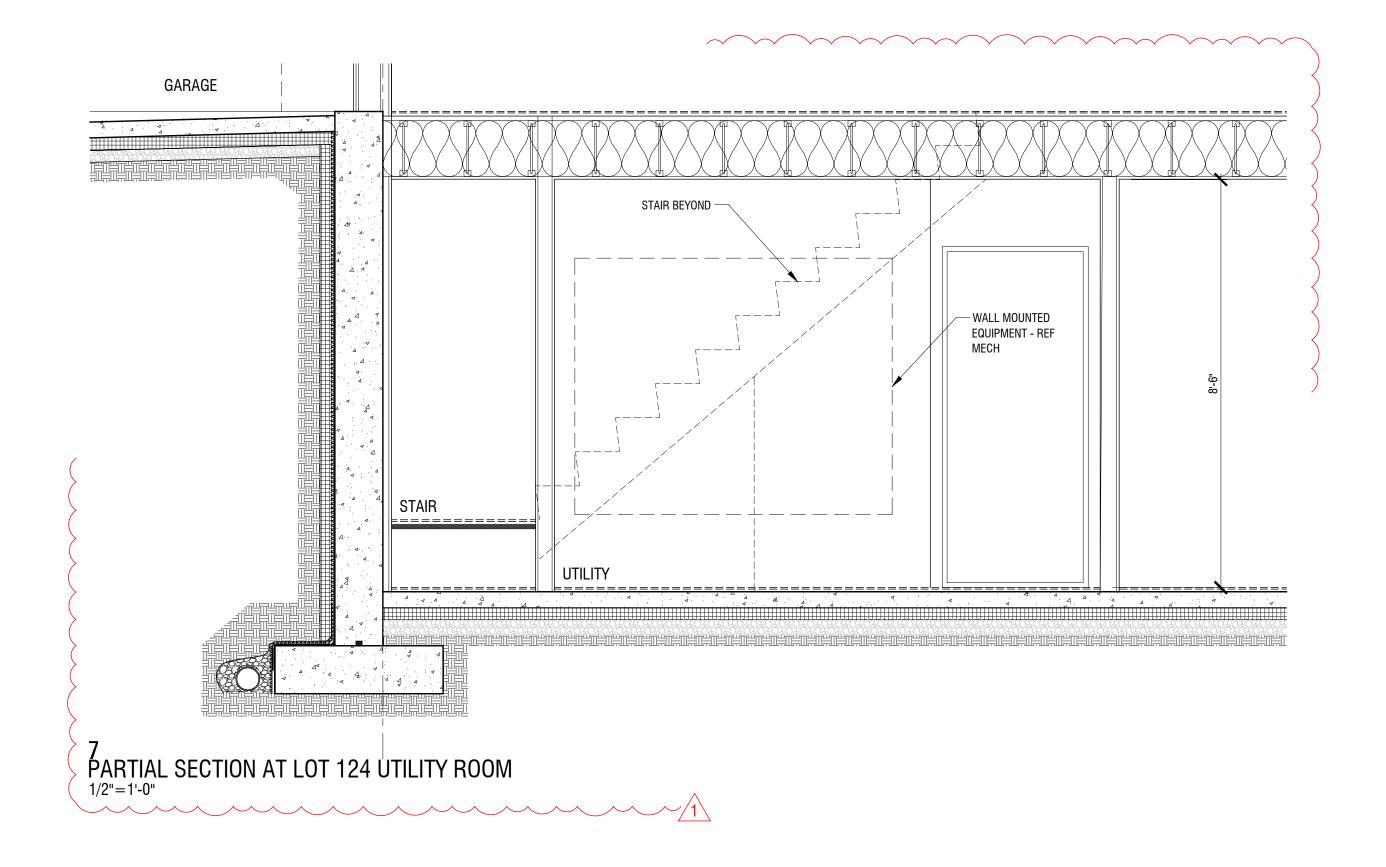




VARIES scale

1/4" = 1'-0"



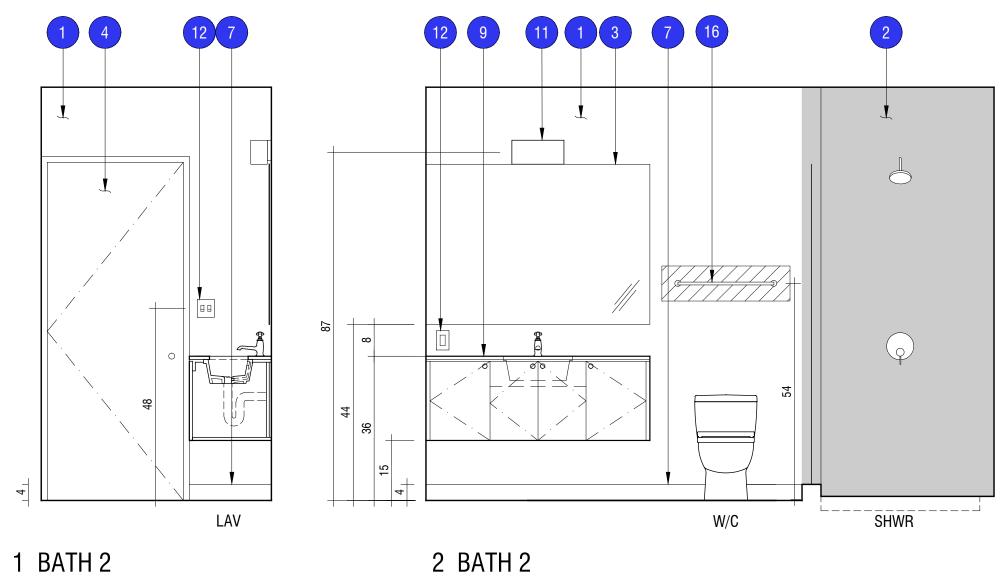


6 HANDRAIL - ELEVATION 6"=1'-0"



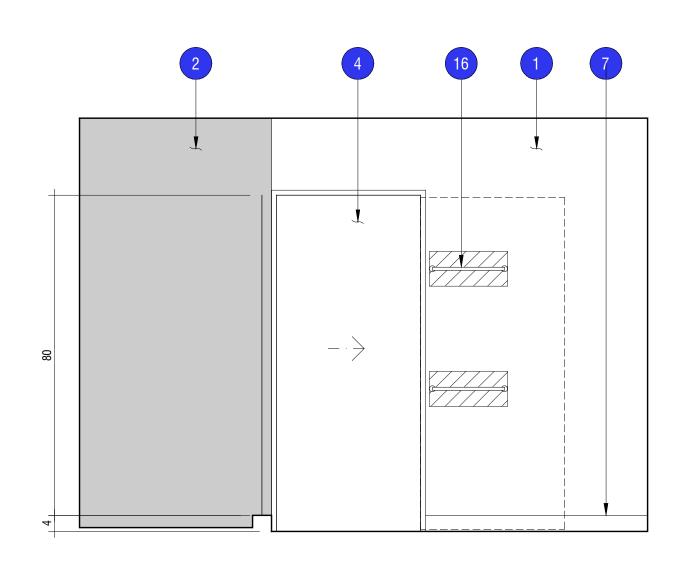


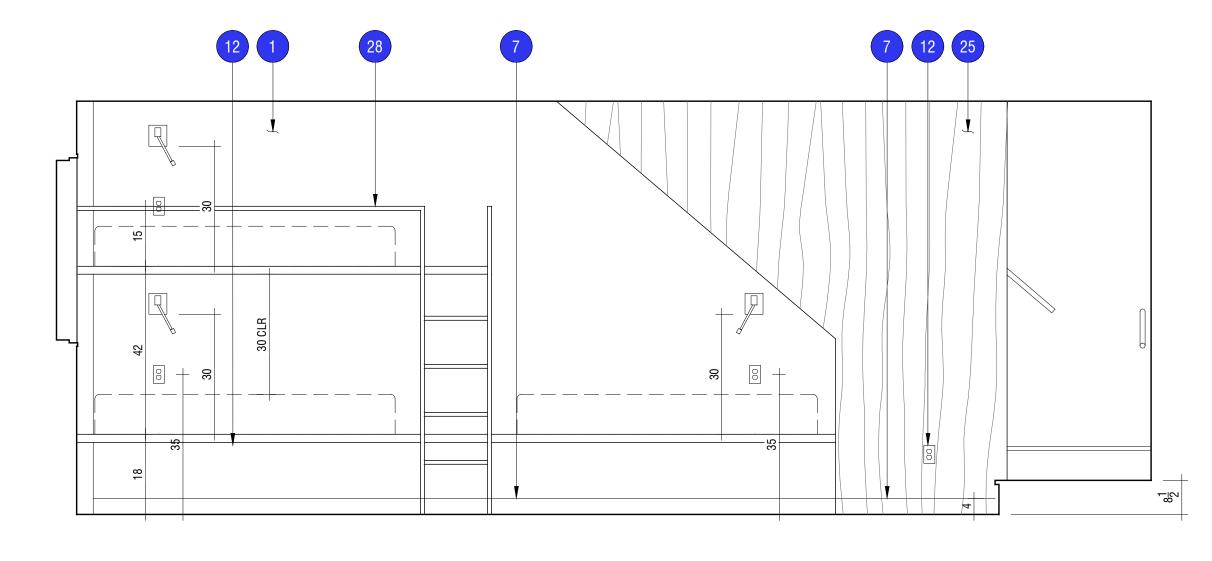
VARIES scale



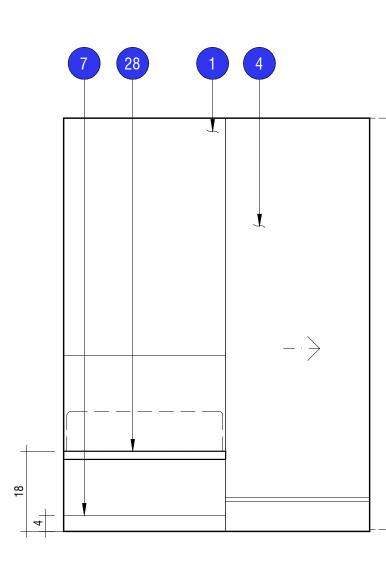
1/2" = 1'-0"

2 BATH 2 1/2" = 1'-0"



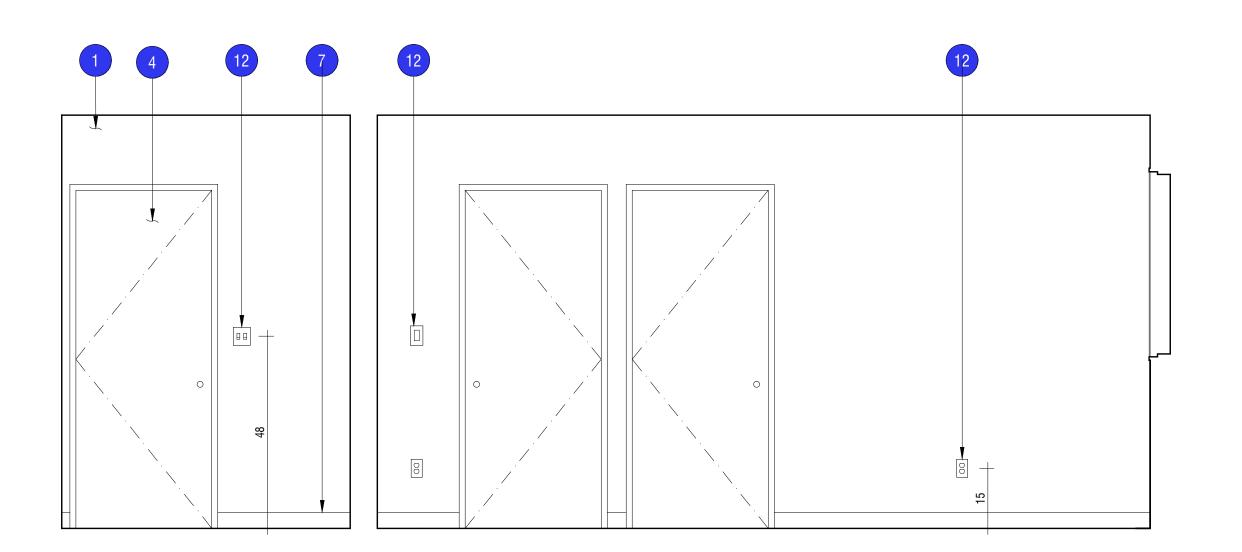


6 BATH 2 1/2" = 1'-0"

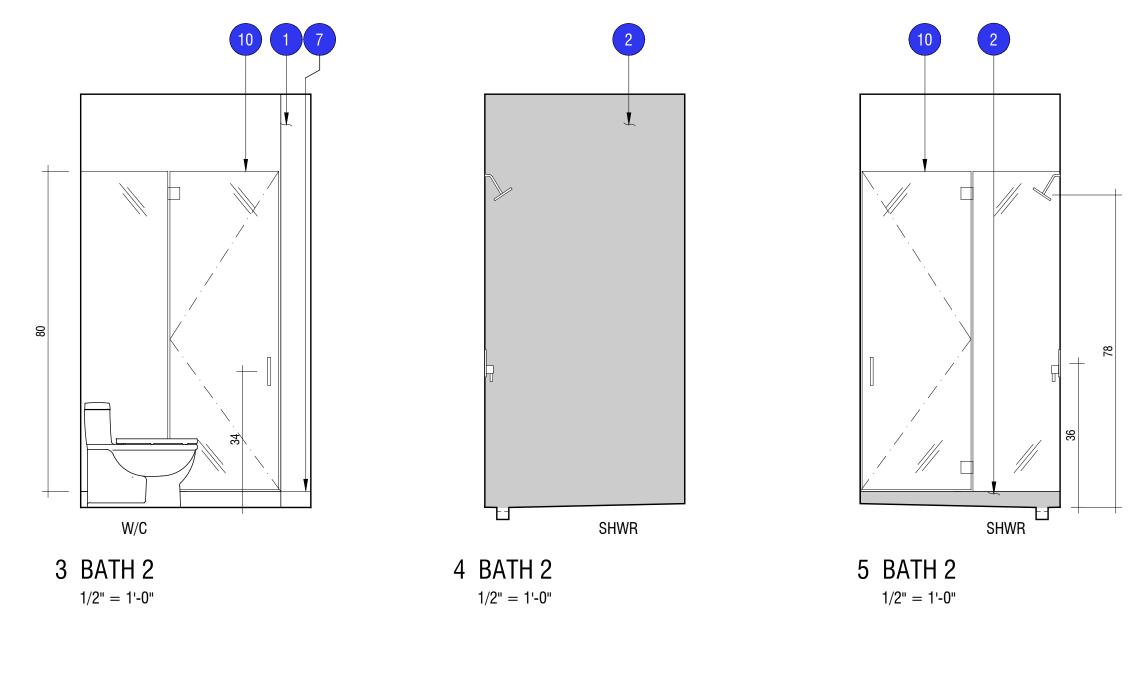


8 LOWER LEVEL CORRIDOR 1/2" = 1'-0"

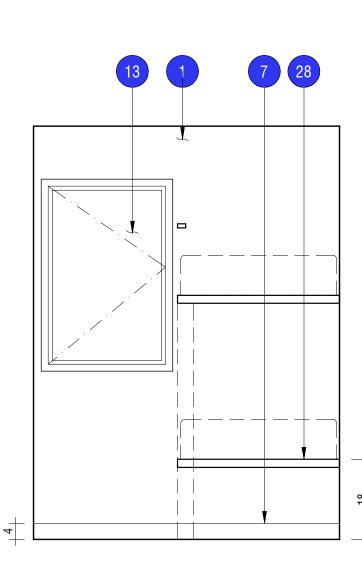
7 LOWER LEVEL CORRIDOR 1/2" = 1'-0"



9 LOWER LEVEL CORRIDOR 1/2" = 1'-0"



1



1/2" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES

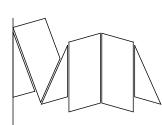
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|-----|--|--------------|
| KE١ | NOTES | |
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| # | DESCRIPTION | REF. DTL/SHT |
| 1 | PAINTED GWB W/ LEVEL 4 FINISH | |
| 2 | TILE | 10/A5.10 |
| 3 | MIRROR | |
| 4 | DOOR | REF. PLAN |
| 5 | MILLWORK/CABINETRY, PROVIDE ADJUSTABLE SHELVES WHERE SHOWN | |
| 6 | MEDICINE CABINET | |
| 7 | WALL BASE | 1/A5.10 |
| 8 | RECESSED TOE KICK | |
| 9 | WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WHERE SHOWN | |
| 10 | GLASS SHOWER ENCLOSURE | |
| 11 | LIGHT FIXTURE | REF RCP |
| 12 | ELECTRICAL RECEPTACLE/OUTLET | REF. ELEC |
| 13 | WINDOW | REF. PLAN |
| 14 | SHOWER SLOT DRAIN | |
| 15 | ROBE HOOK, BY OWNER | |
| 16 | TOWEL BAR, BY OWNER | |
| 17 | GUARDRAIL | |
| 18 | FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY | |
| 19 | UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS, AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS, TYP. | |
| 20 | HANGING ROD AND SHELF WHERE SHOWN | |
| 21 | WOOD WALL CAP | |
| 22 | WALL MOUNTED 10-SKI/SNOWBOARD STORAGE RACK, MFR. MONKEY BARS | |
| 23 | UPGR.: 1-PAIR WALL MOUNTED LOCKER BOOT & GLOVE DRYER, MFR. DRYX., COORDINATE WITH ELEC. FOR ADDITIONAL CONVENIENCE OUTLET LOCATIONS. PROVIDE VENTILATION AT BASE. | |
| 24 | FURNITURE, BY OWNER | |
| 25 | WOOD WALL PANEL'G | |
| 26 | UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK | |
| 27 | WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY OWNER | |
| 28 | UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE SHOWN; CLEAR SEALED. | |
| 29 | BUILT-IN BENCH W/ CUSHION | |
| 30 | WASHER/DRYER BOX | |

- 31 TOWEL RING
- 32 SHOWER CURTAIN ROD

10 LOWER LEVEL CORRIDOR



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sma project no. 16-101

sma project name POWDERCAT

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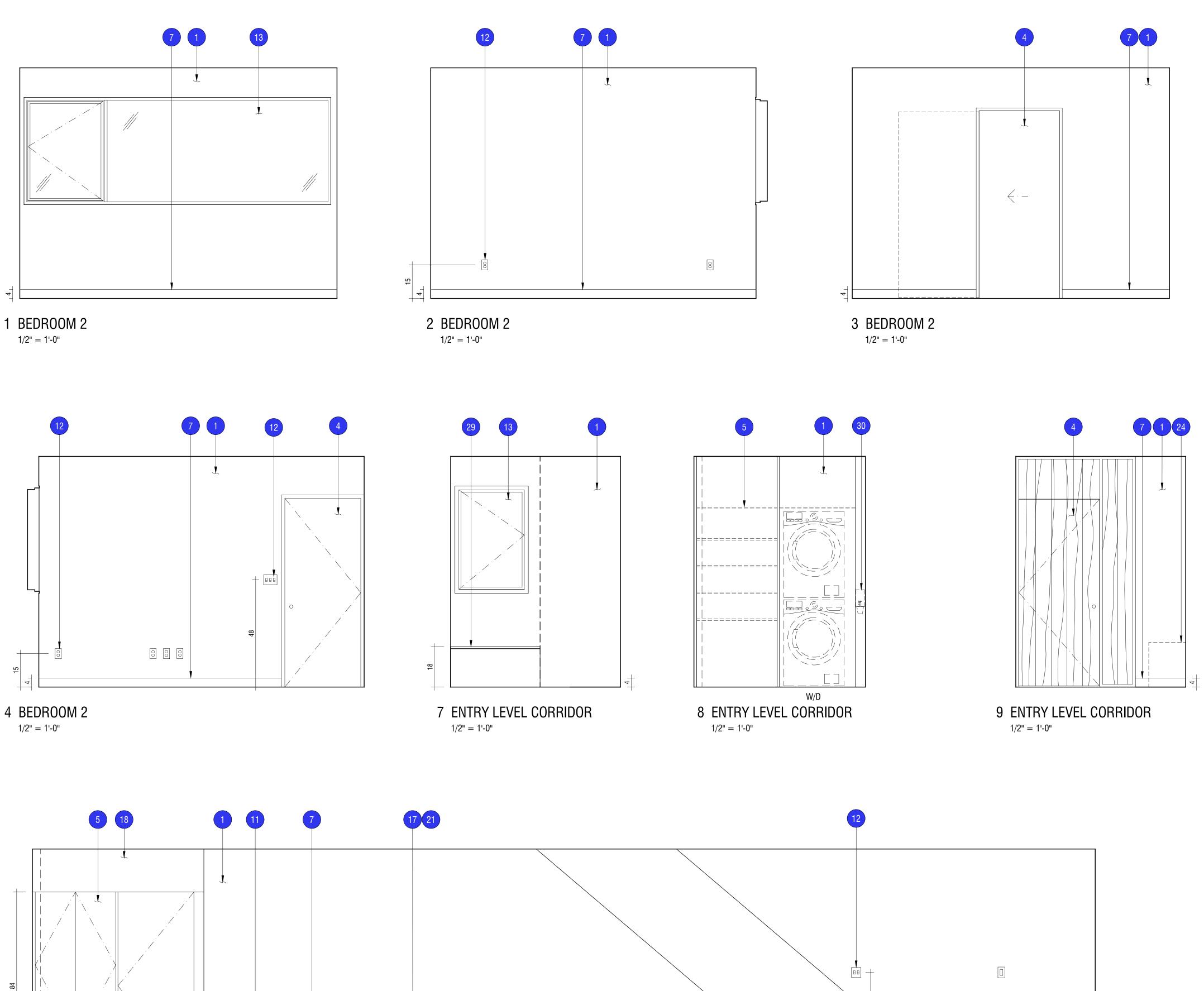
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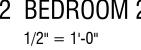
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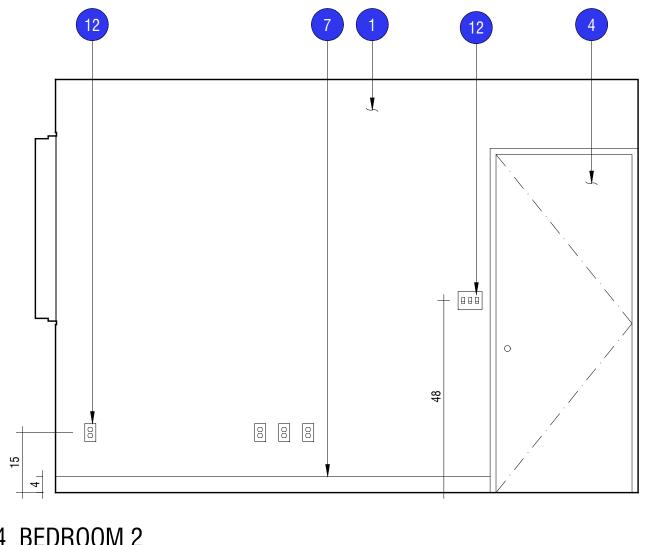


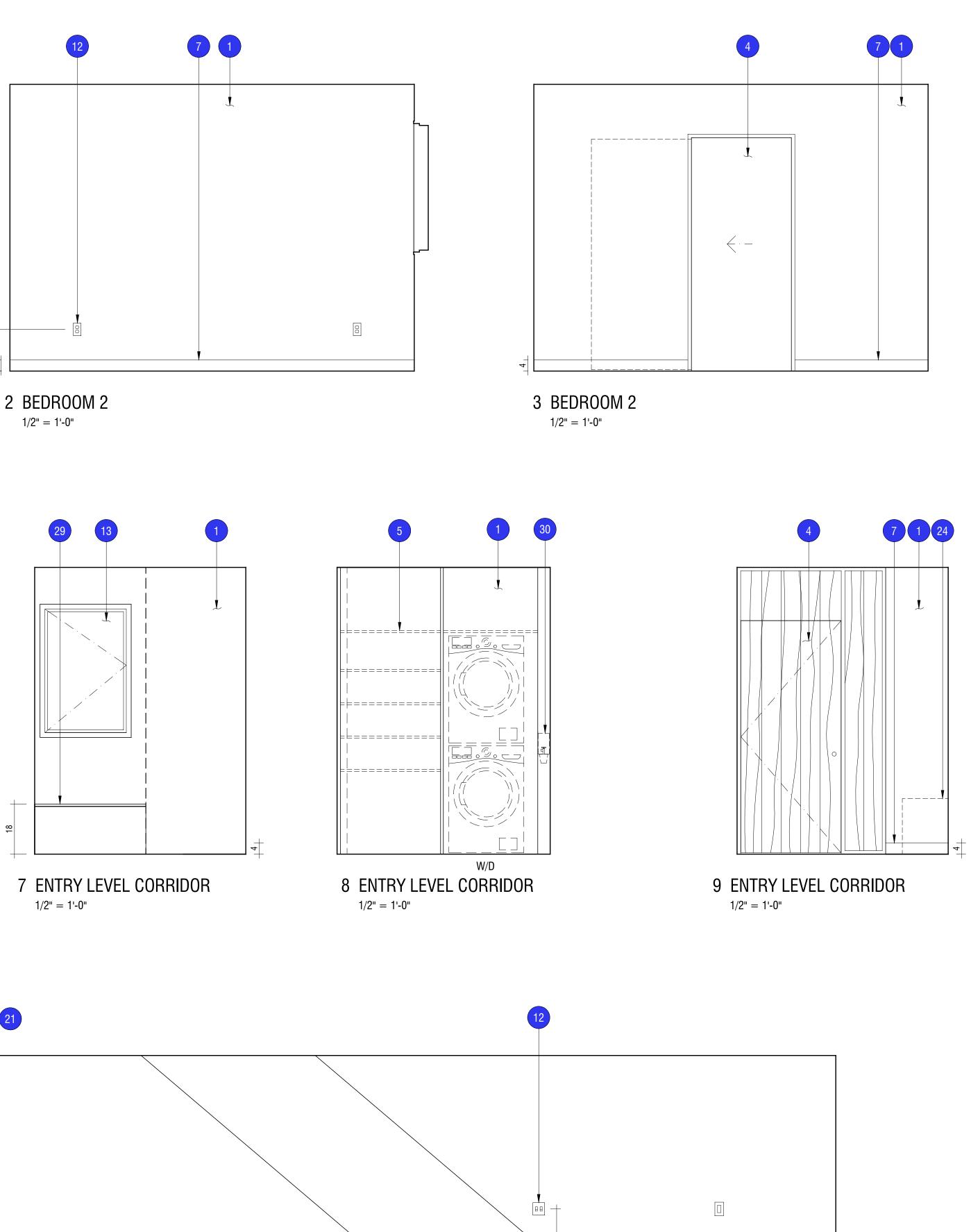


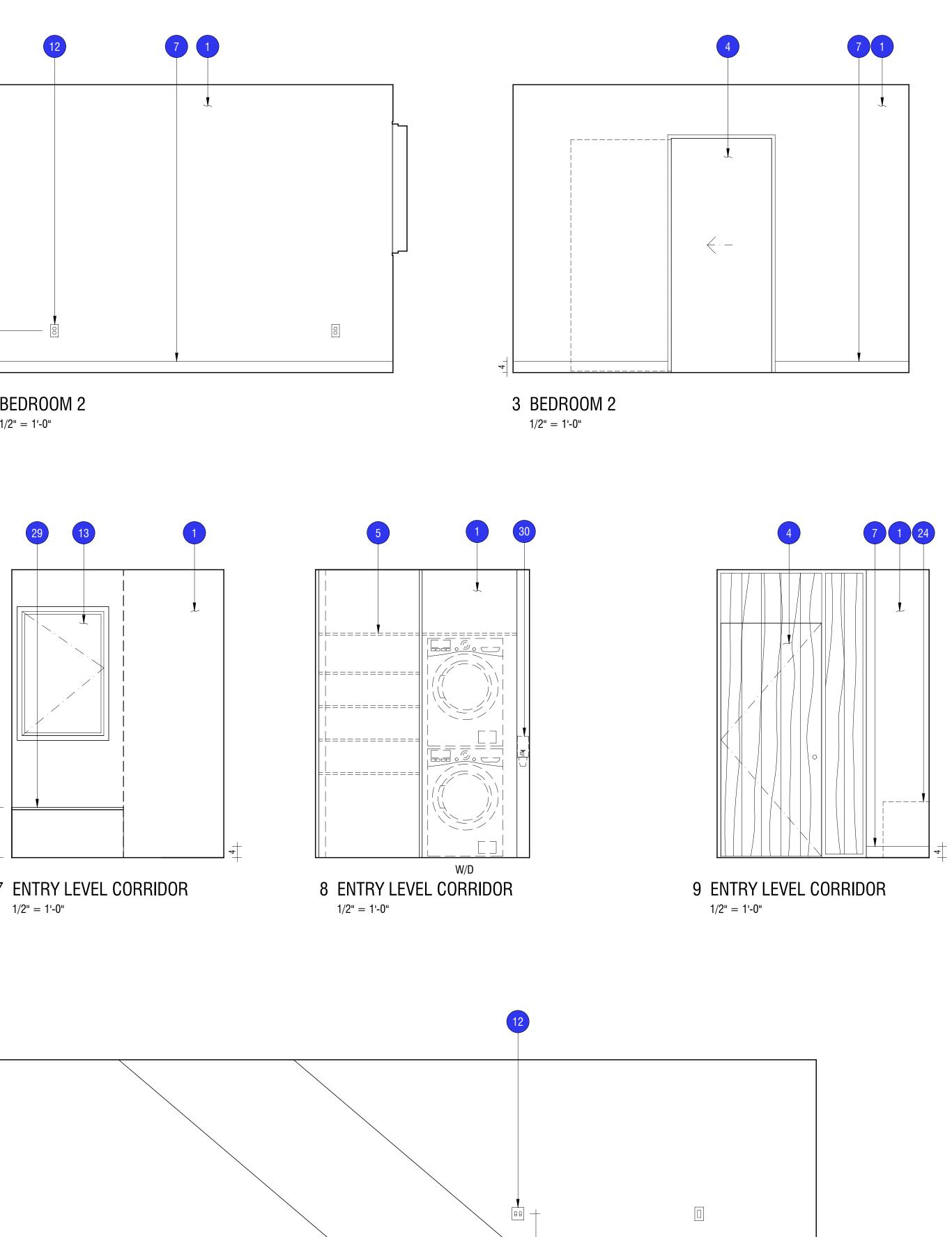
1/2" = 1'-0" scale

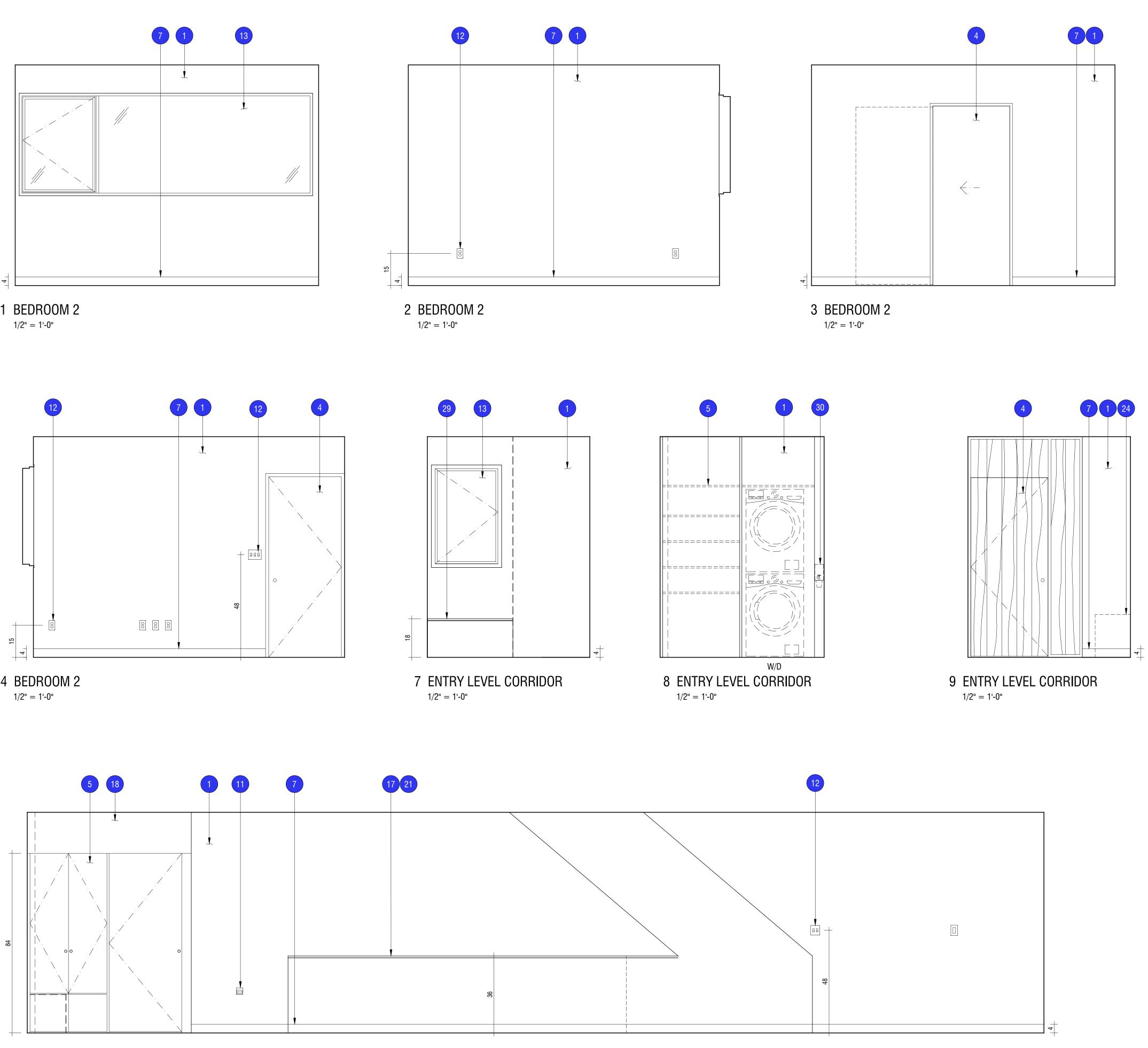












10 ENTRY LEVEL CORRIDOR 1/2" = 1'-0"

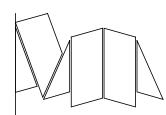
GENERAL INTERIOR ELEVATION NOTES

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| 11 | LIGHT FIXTURE | REF RCP |
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| | | |

32 SHOWER CURTAIN ROD



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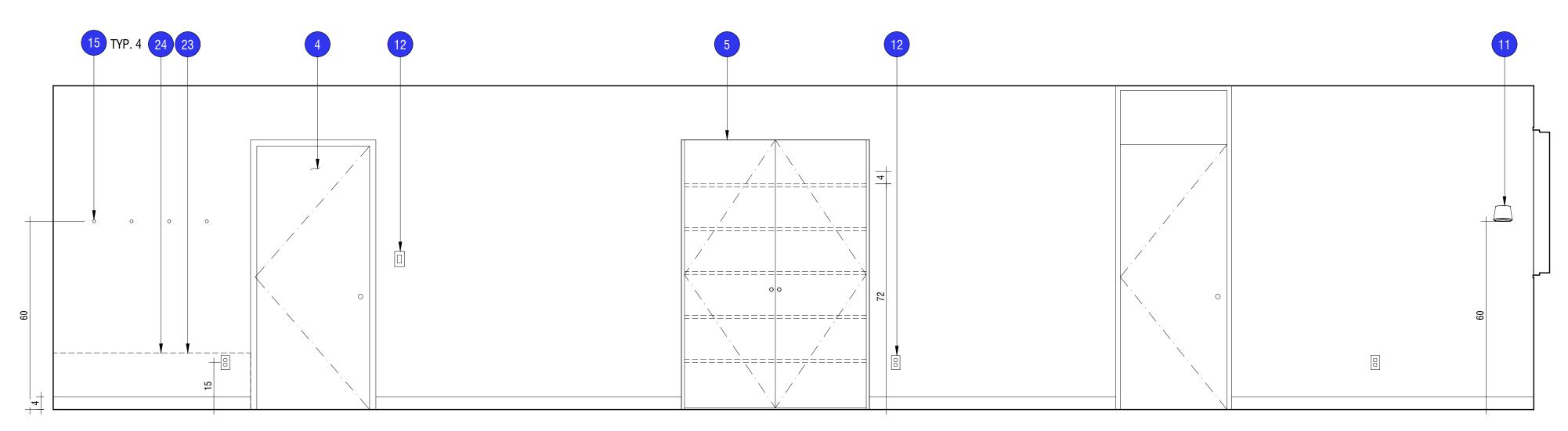
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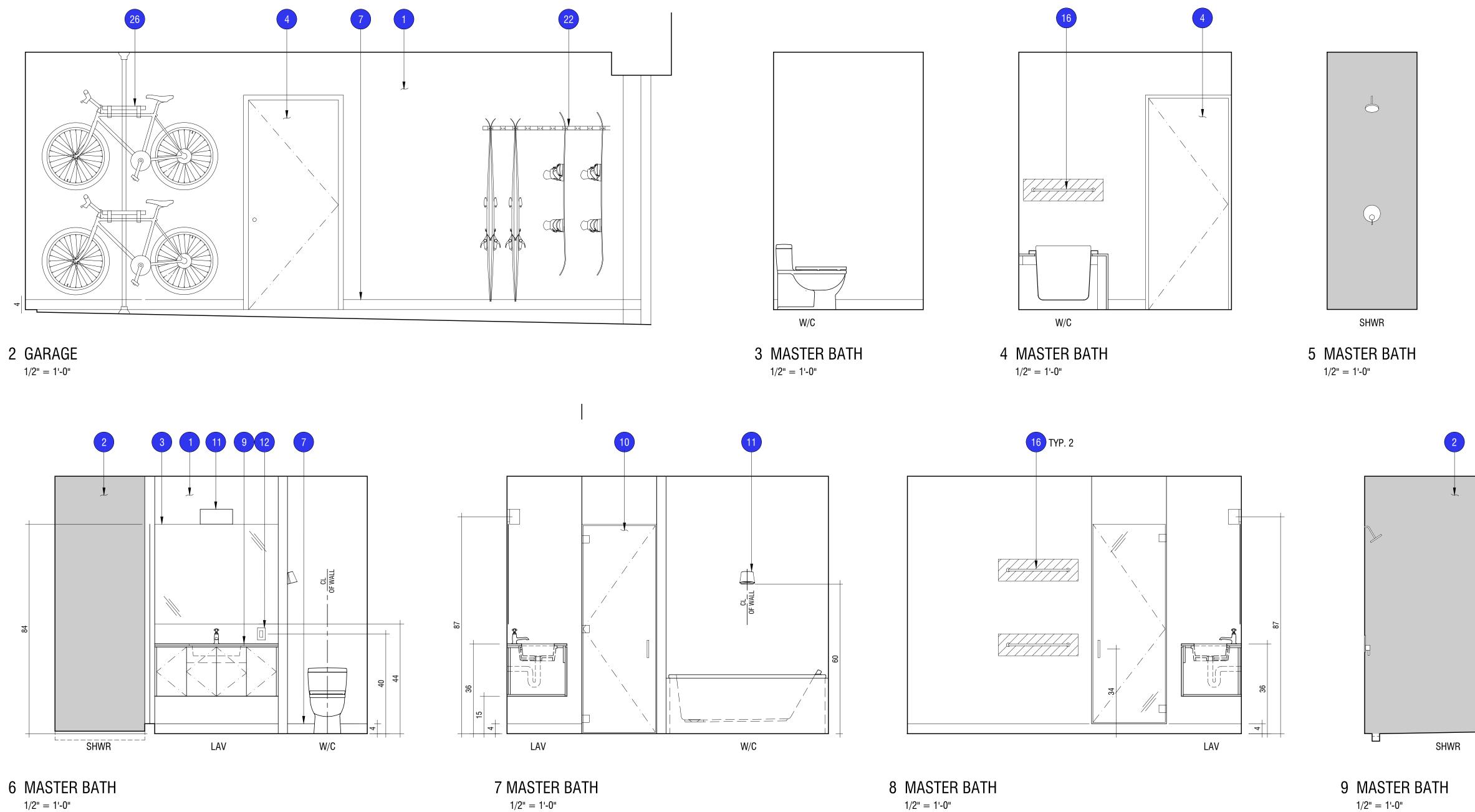


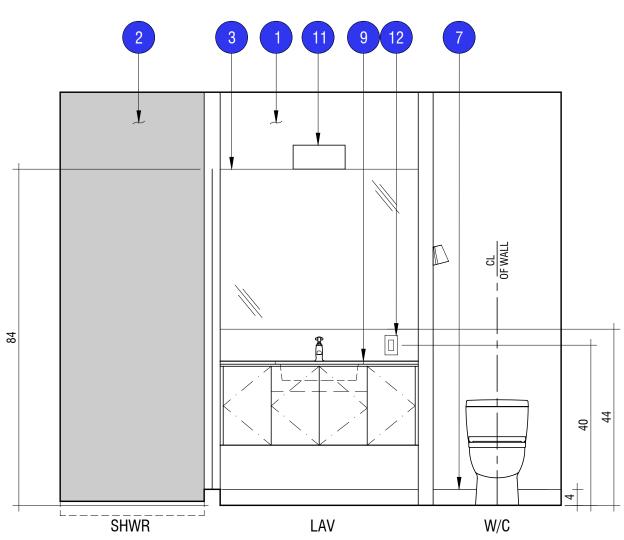


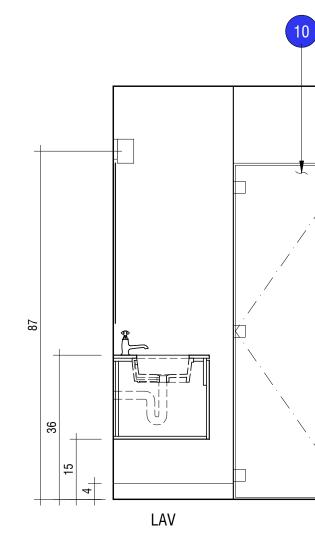
1/2" = 1'-0" scale



1 ENTRY LEVEL CORRIDOR 1/2" = 1'-0"







1/2" = 1'-0"

1/2" = 1'-0"

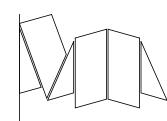
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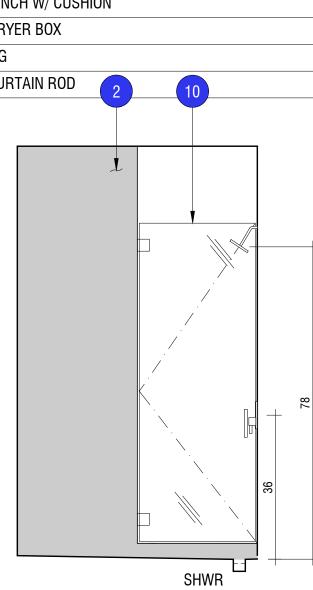
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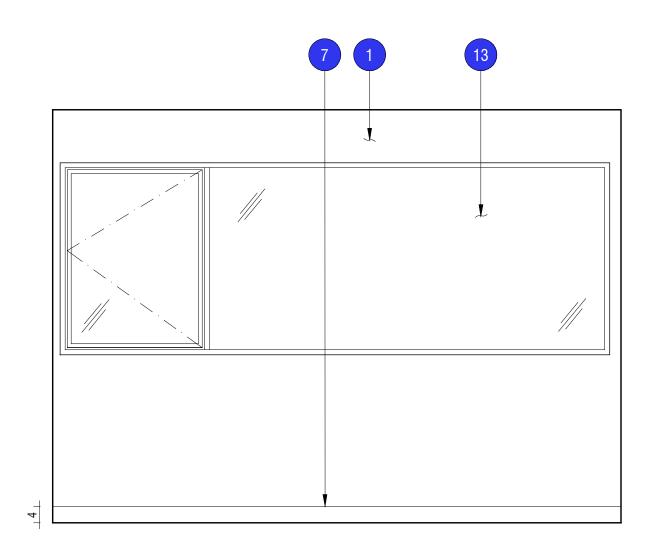


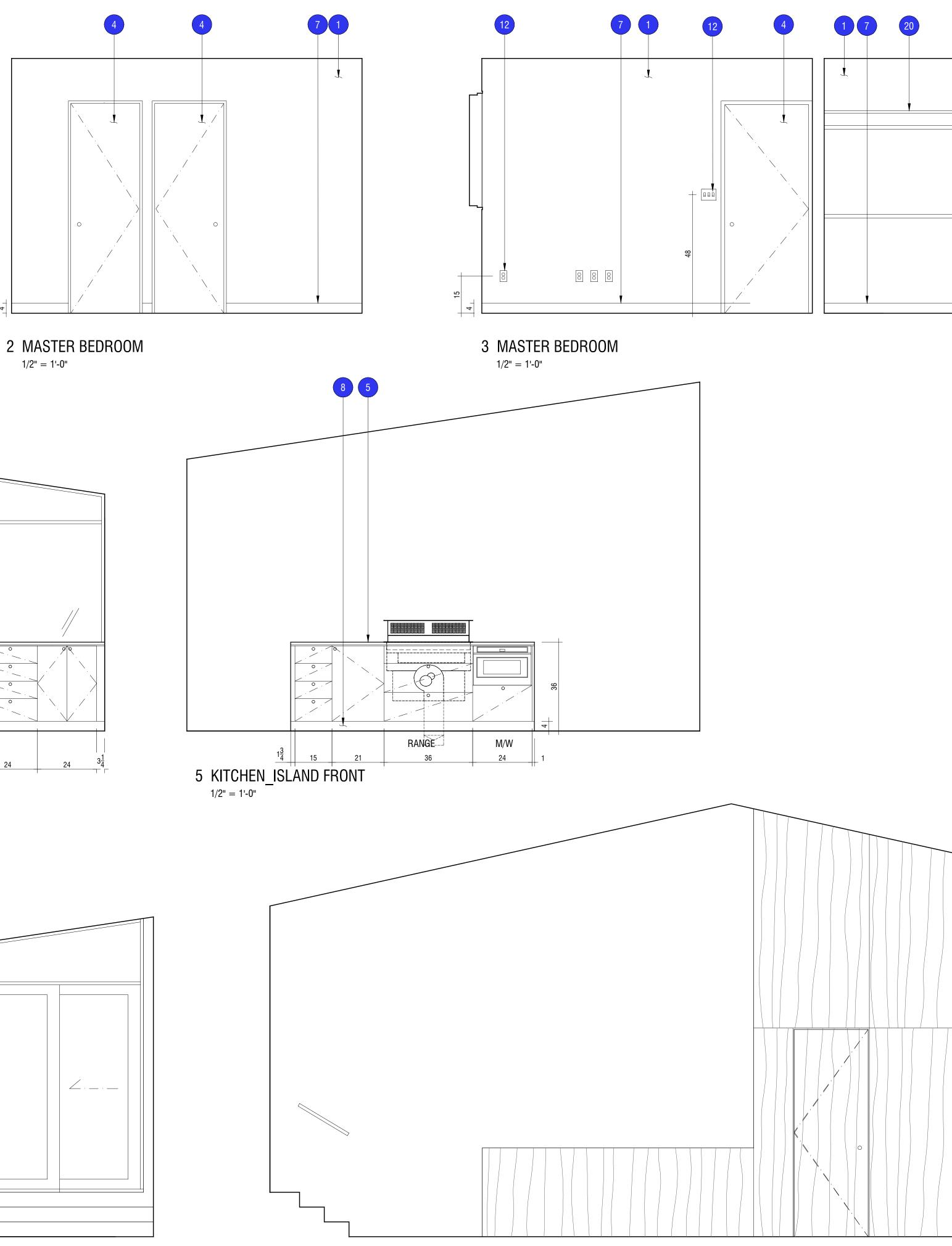


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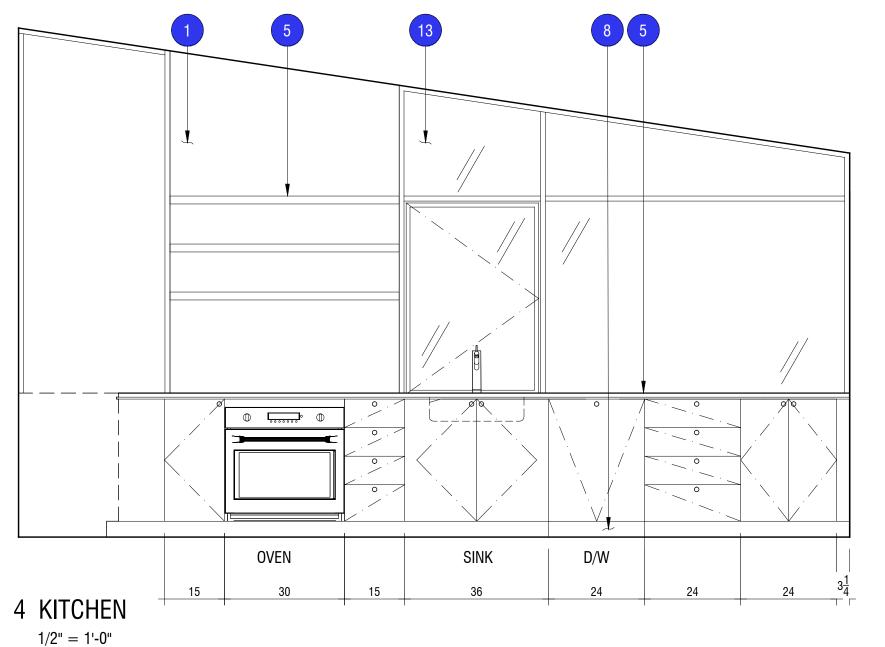


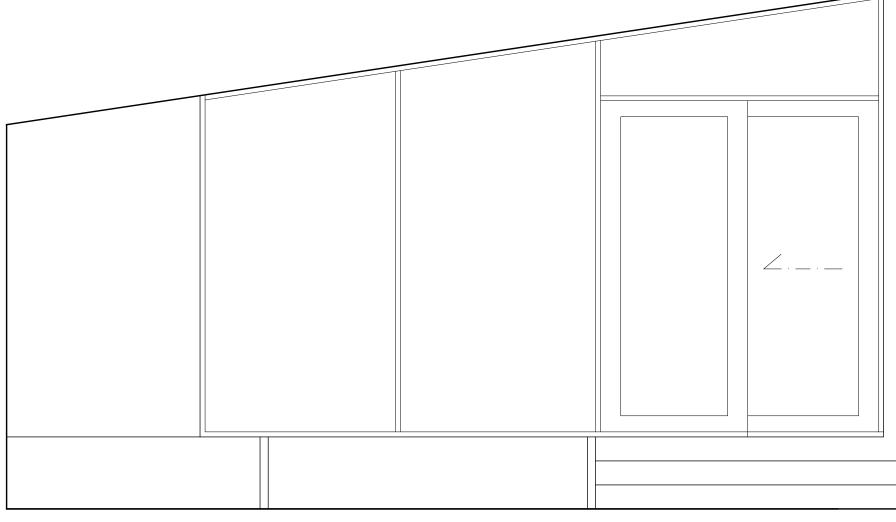












FIREPLACE

6 LIVING_ROOM 1/2" = 1'-0"

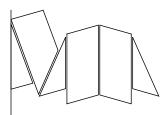
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KEYNOTES "UPGR." designation on keynote tags refers to owner upgrades, refer to specifications for additional information. REF. DTL/SHT # DESCRIPTION 1 PAINTED GWB W/ LEVEL 4 FINISH 2 TILE 10/A5.10 3 MIRROR 4 DOOR REF. PLAN 5 MILLWORK/CABINETRY, PROVIDE ADJUSTABLE SHELVES WHERE SHOWN MEDICINE CABINET 6 WALL BASE 1/A5.10 8 RECESSED TOE KICK 9 WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WHERE SHOWN 10 GLASS SHOWER ENCLOSURE 11 LIGHT FIXTURE REF RCP REF. ELEC 12 ELECTRICAL RECEPTACLE/OUTLET 13 WINDOW REF. PLAN 14 SHOWER SLOT DRAIN 15 ROBE HOOK, BY OWNER 16 TOWEL BAR, BY OWNER 17 GUARDRAIL 18 FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY 19 UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS, AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS, TYP. 20 HANGING ROD AND SHELF WHERE SHOWN 21 WOOD WALL CAP 22 WALL MOUNTED 10-SKI/SNOWBOARD STORAGE RACK, MFR. MONKEY BARS 23 UPGR.: 1-PAIR WALL MOUNTED LOCKER BOOT & GLOVE DRYER, MFR. DRYX., COORDINATE WITH ELEC. FOR ADDITIONAL CONVENIENCE OUTLET LOCATIONS. PROVIDE VENTILATION AT BASE. 24 FURNITURE, BY OWNER 25 WOOD WALL PANEL'G 26 UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK 27 WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY OWNER 28 UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE SHOWN; CLEAR SEALED. 29 BUILT-IN BENCH W/ CUSHION

30 WASHER/DRYER BOX 31 TOWEL RING 32 SHOWER CURTAIN ROD 16<u>3</u> 14 37



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sma project no. 16-101

sma project name POWDERCAT

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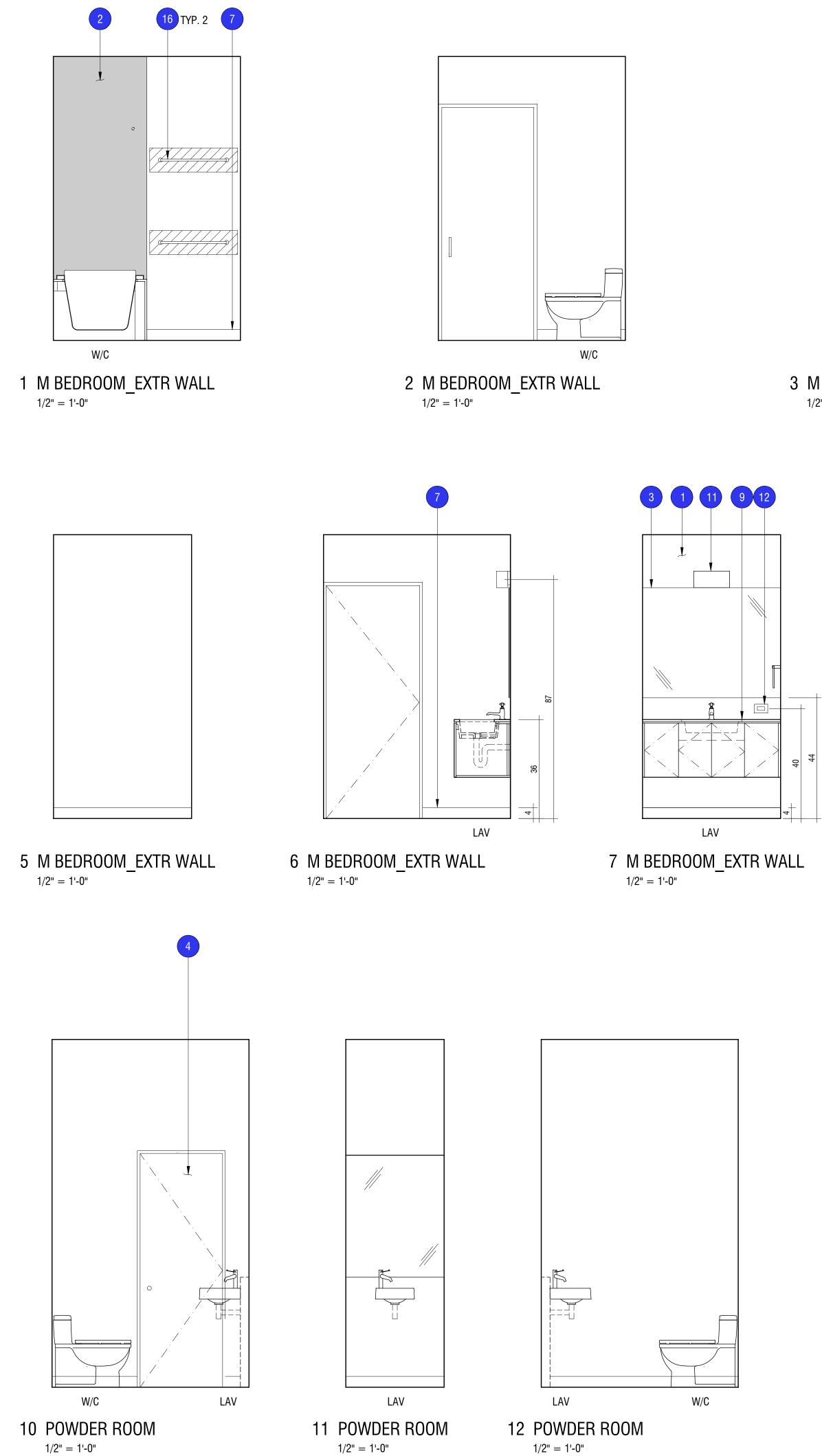
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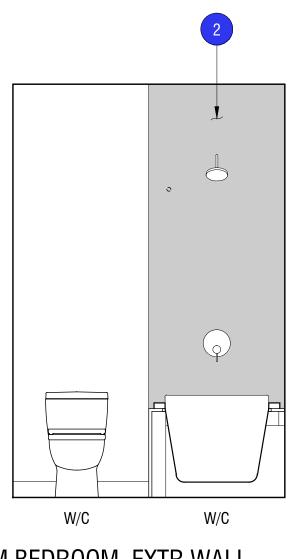
LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

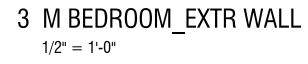


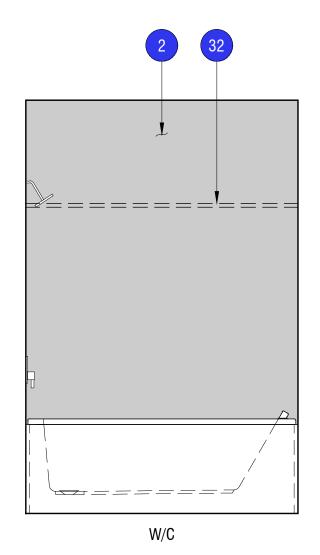


1/2" = 1'-0" scale

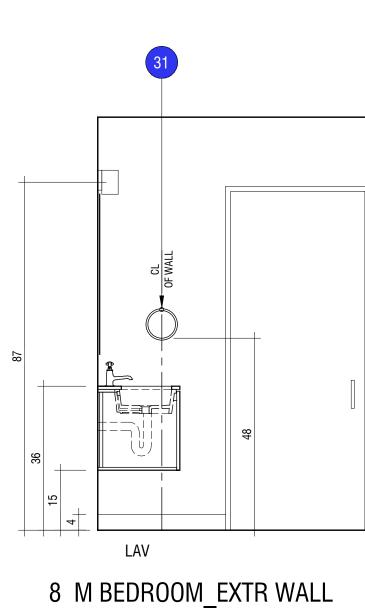




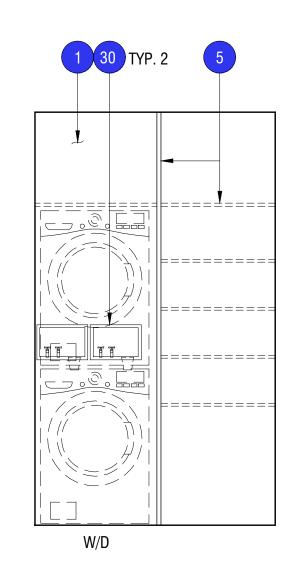




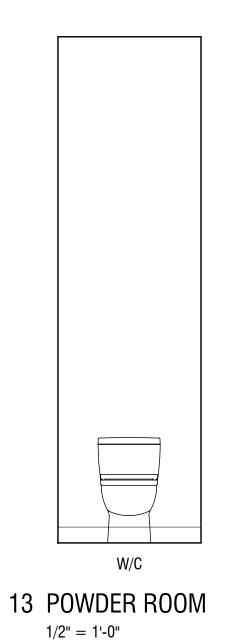
4 M BEDROOM_EXTR WALL 1/2" = 1'-0"

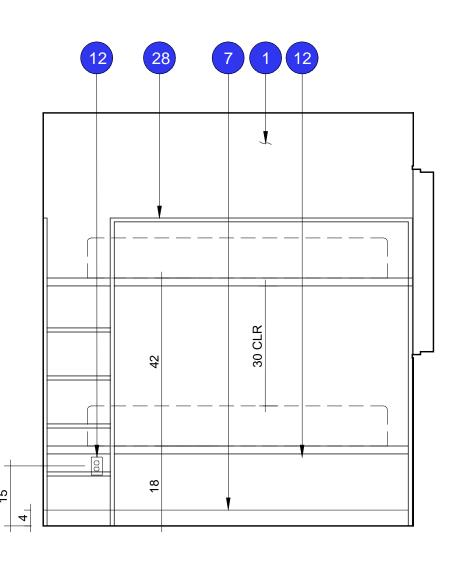


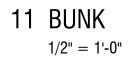
1/2" = 1'-0"



9 M BEDROOM_EXTR WALL 1/2" = 1'-0"







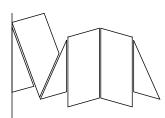
GENERAL INTERIOR ELEVATION NOTES

Interior elevations are drawn for typical unit - refer to site plan for mirrored unit conditions and mirror interior elevations accordingly

- 1. Dimensions are to centerlines of fixtures/equipment/accessories, and to face of finish, typ u.n.o.
- 2. Provide solid wood backing at all fixtures/equipment/accessories locations, typ.
- 3. Contractor to field verify all openings and correct any deviations from specified framing tolerances prior to proceeding.
- 4. All backing locations to be reviewed by architect and approved by owner's representative prior to installing sheathing/finishes.

| | | phor to installing sheathing/initishes. | |
|----|------|--|---------------|
| "ເ | JPGF | NOTES R." designation on keynote tags refers to owner upgrades, refer to ications for additional information. | |
| _ | # | DESCRIPTION | REF. DTL/SHT |
| 1 | | PAINTED GWB W/ LEVEL 4 FINISH | NLI. DIL/SIII |
| 2 | | TILE | 10/A5.10 |
| 3 | | MIRROR | |
| 4 | | DOOR | REF. PLAN |
| 5 | 5 | MILLWORK/CABINETRY, PROVIDE ADJUSTABLE SHELVES WHERE SHOWN | |
| 6 | 6 | MEDICINE CABINET | |
| 7 | 7 | WALL BASE | 1/A5.10 |
| 8 | } | RECESSED TOE KICK | |
| ç |) | WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WHERE SHOWN | |
| 1 | 0 | GLASS SHOWER ENCLOSURE | |
| 1 | 1 | LIGHT FIXTURE | REF RCP |
| 1 | 2 | ELECTRICAL RECEPTACLE/OUTLET | REF. ELEC |
| 1 | 3 | WINDOW | REF. PLAN |
| 1 | 4 | SHOWER SLOT DRAIN | |
| 1 | 5 | ROBE HOOK, BY OWNER | |
| 1 | 6 | TOWEL BAR, BY OWNER | |
| _1 | 7 | GUARDRAIL | |
| 1 | 8 | FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY | |
| 1 | 9 | UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS, AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS, TYP. | |
| 2 | 20 | HANGING ROD AND SHELF WHERE SHOWN | |
| 2 | 21 | WOOD WALL CAP | |
| 2 | 22 | WALL MOUNTED 10-SKI/SNOWBOARD STORAGE RACK, MFR. MONKEY BARS | |
| 2 | 23 | UPGR.: 1-PAIR WALL MOUNTED LOCKER BOOT & GLOVE DRYER, MFR. DRYX., COORDINATE WITH ELEC. FOR ADDITIONAL CONVENIENCE OUTLET LOCATIONS. PROVIDE VENTILATION AT BASE. | |
| 2 | 24 | FURNITURE, BY OWNER | |
| 2 | 25 | WOOD WALL PANEL'G | |
| 2 | 26 | UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK | |
| 2 | 27 | WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY OWNER | |
| 2 | 28 | UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE SHOWN; CLEAR SEALED. | |
| 2 | 29 | BUILT-IN BENCH W/ CUSHION | |
| 3 | 30 | WASHER/DRYER BOX | |
| 3 | 31 | TOWEL RING | |
| | | | |

32 SHOWER CURTAIN ROD



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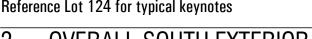
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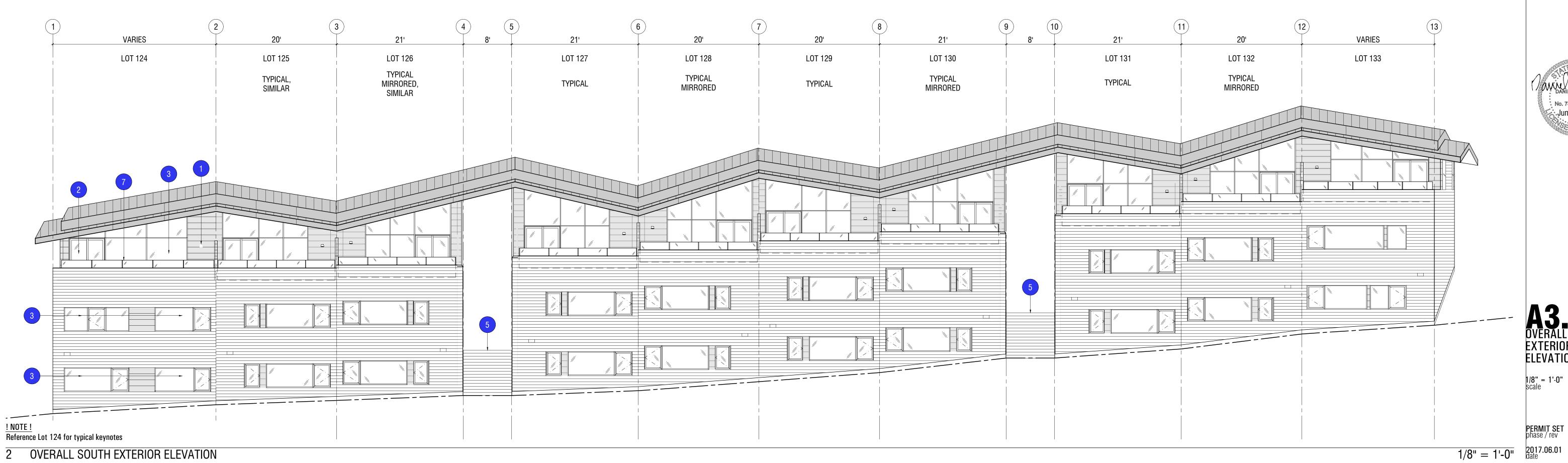


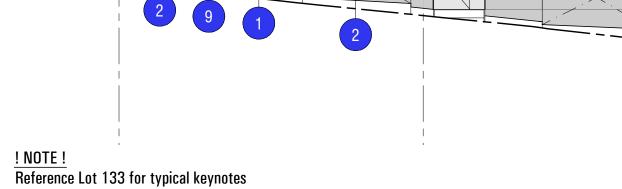


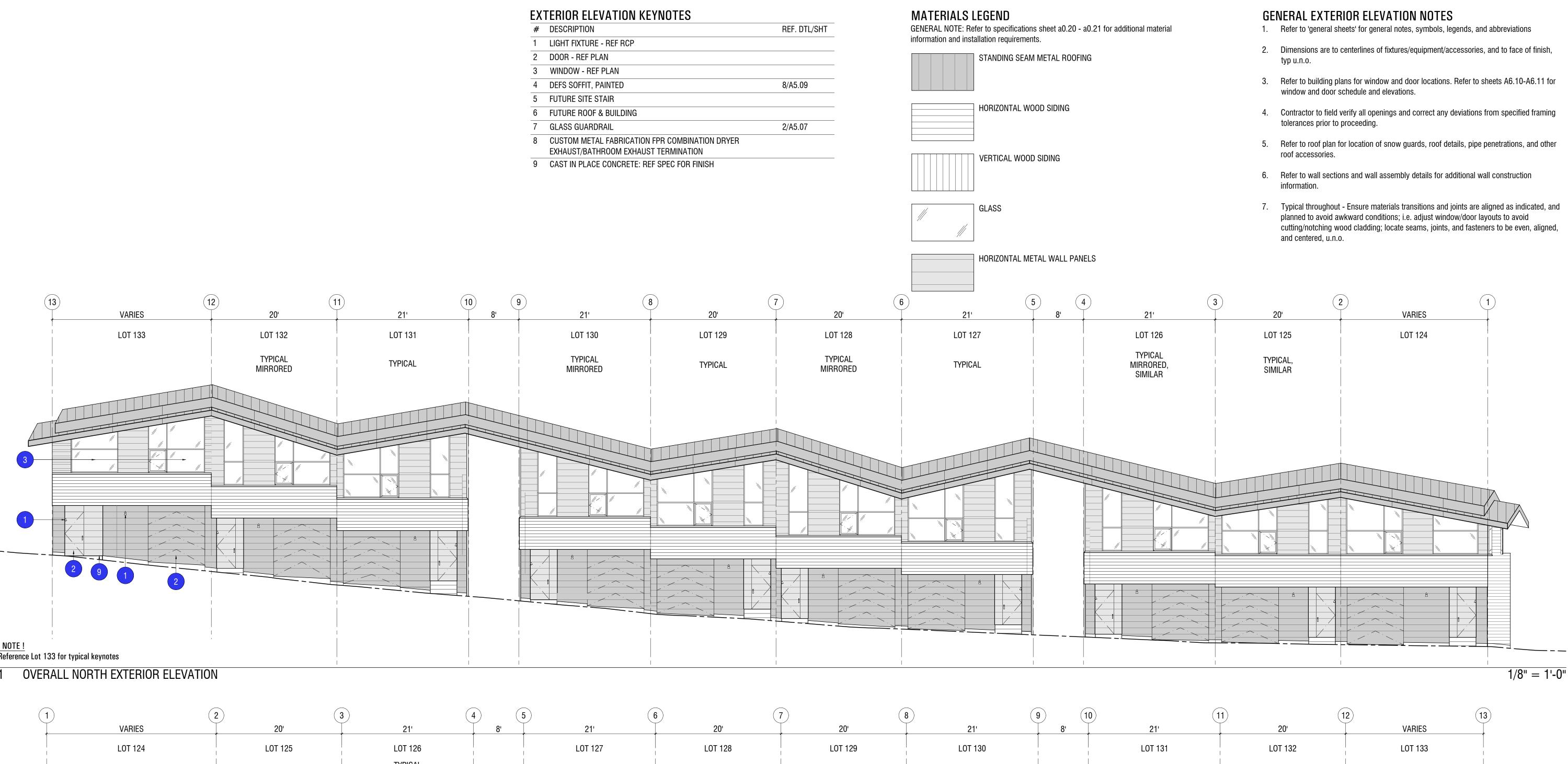
1/2" = 1'-0" scale



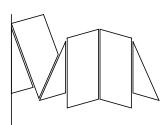








- cutting/notching wood cladding; locate seams, joints, and fasteners to be even, aligned,



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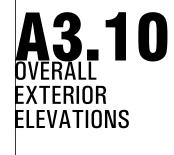
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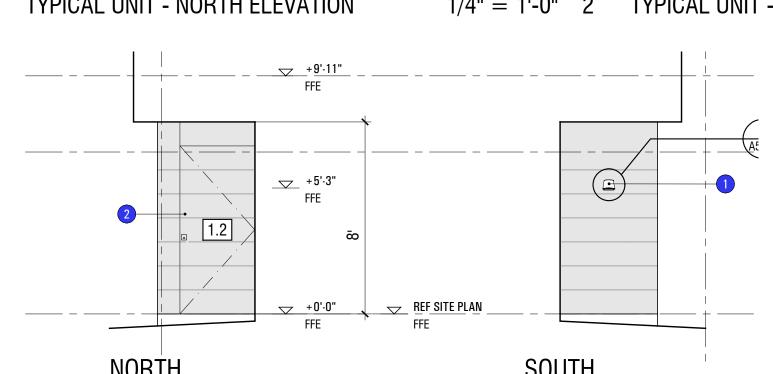


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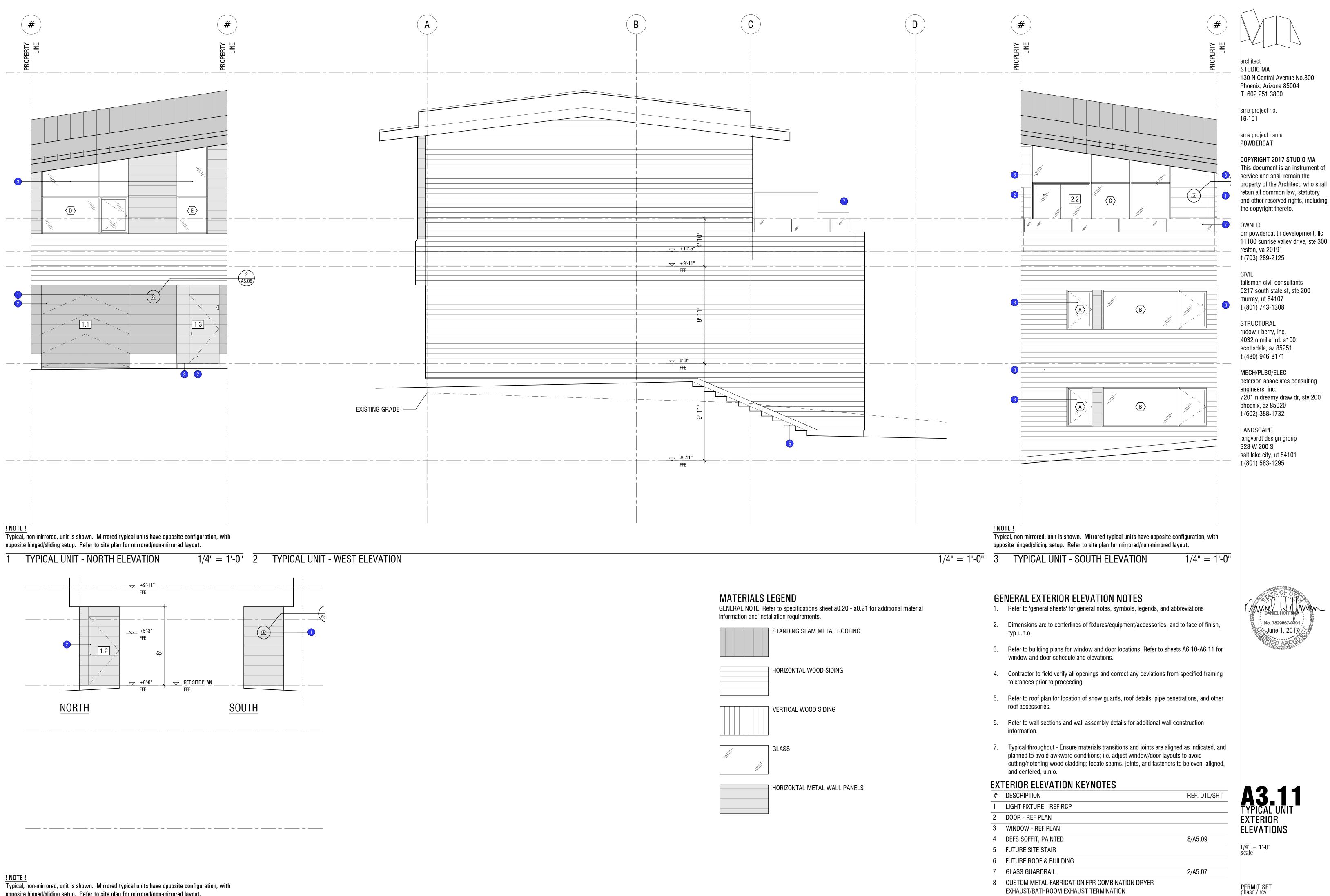
PERMIT SET phase / rev

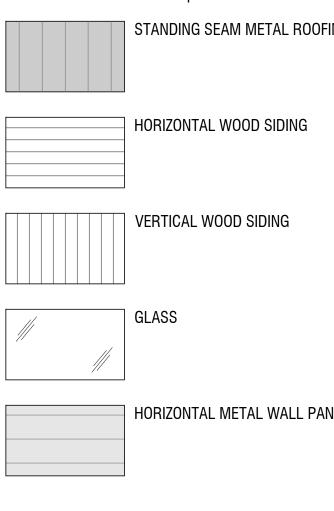
opposite hinged/sliding setup. Refer to site plan for mirrored/non-mirrored layout. 4 TYPICAL UNIT - HIDDEN ELEVATIONS @ ENTRY 1/4" = 1'-0"





TYPICAL UNIT - NORTH ELEVATION

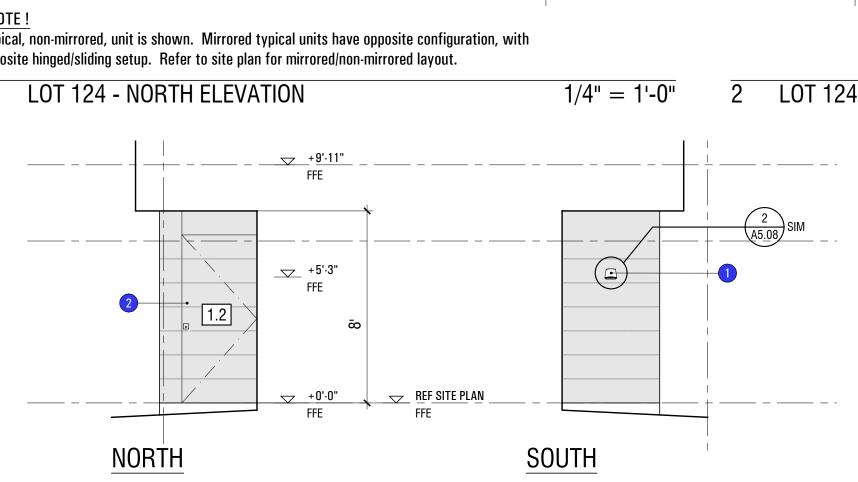


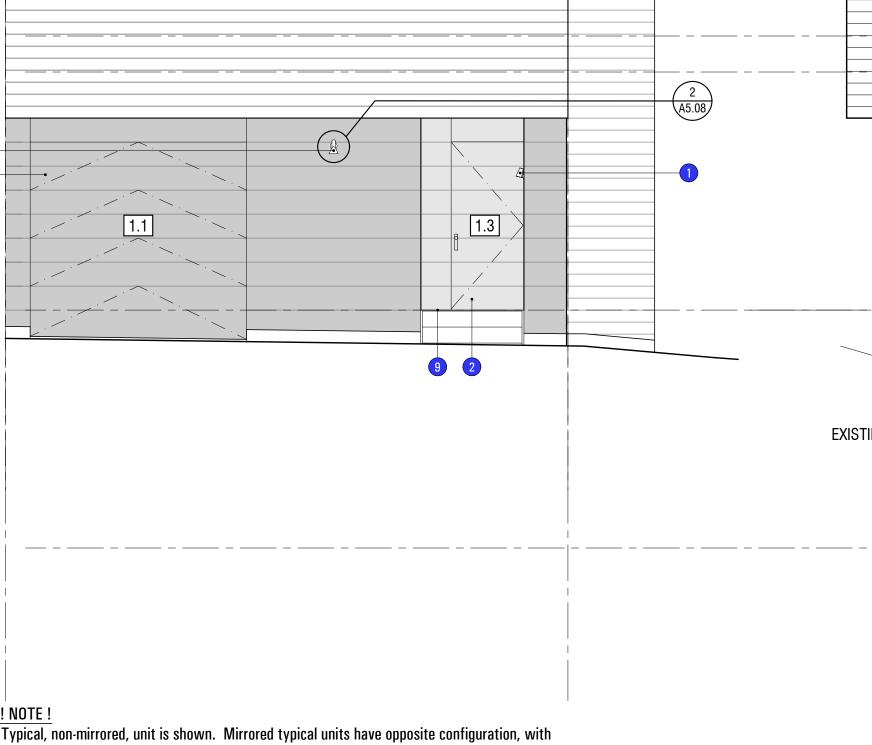


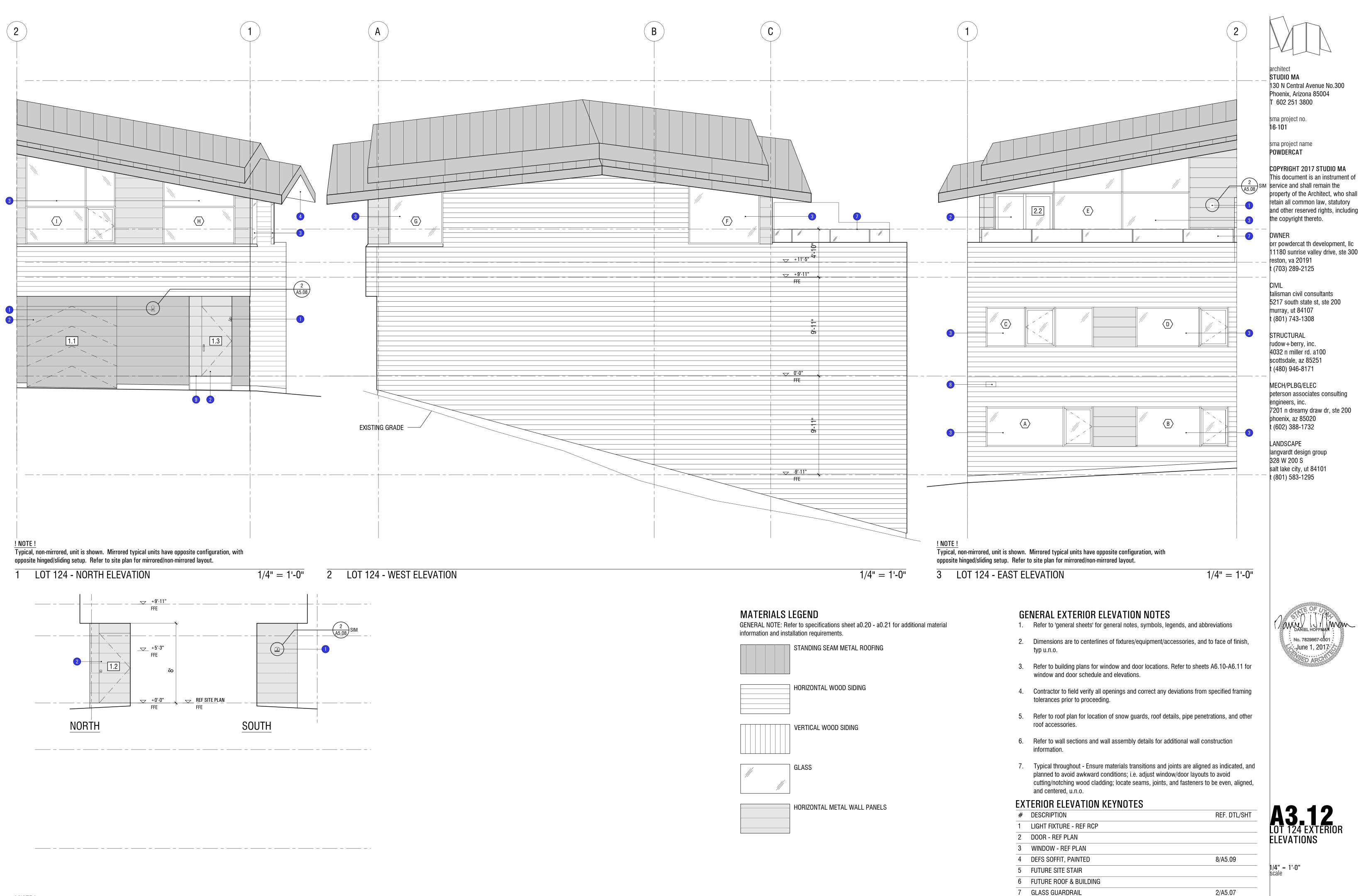
9 CAST IN PLACE CONCRETE: REF SPEC FOR FINISH

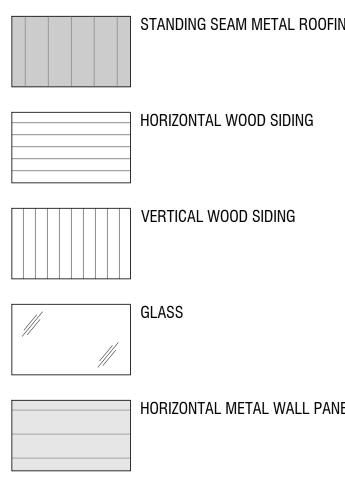
2017.06.01











PERMIT SET phase / rev 2017.06.01

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2/A5.07

8 CUSTOM METAL FABRICATION FPR COMBINATION DRYER

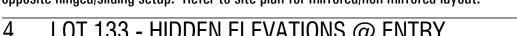
EXHAUST/BATHROOM EXHAUST TERMINATION

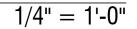
9 CAST IN PLACE CONCRETE: REF SPEC FOR FINISH

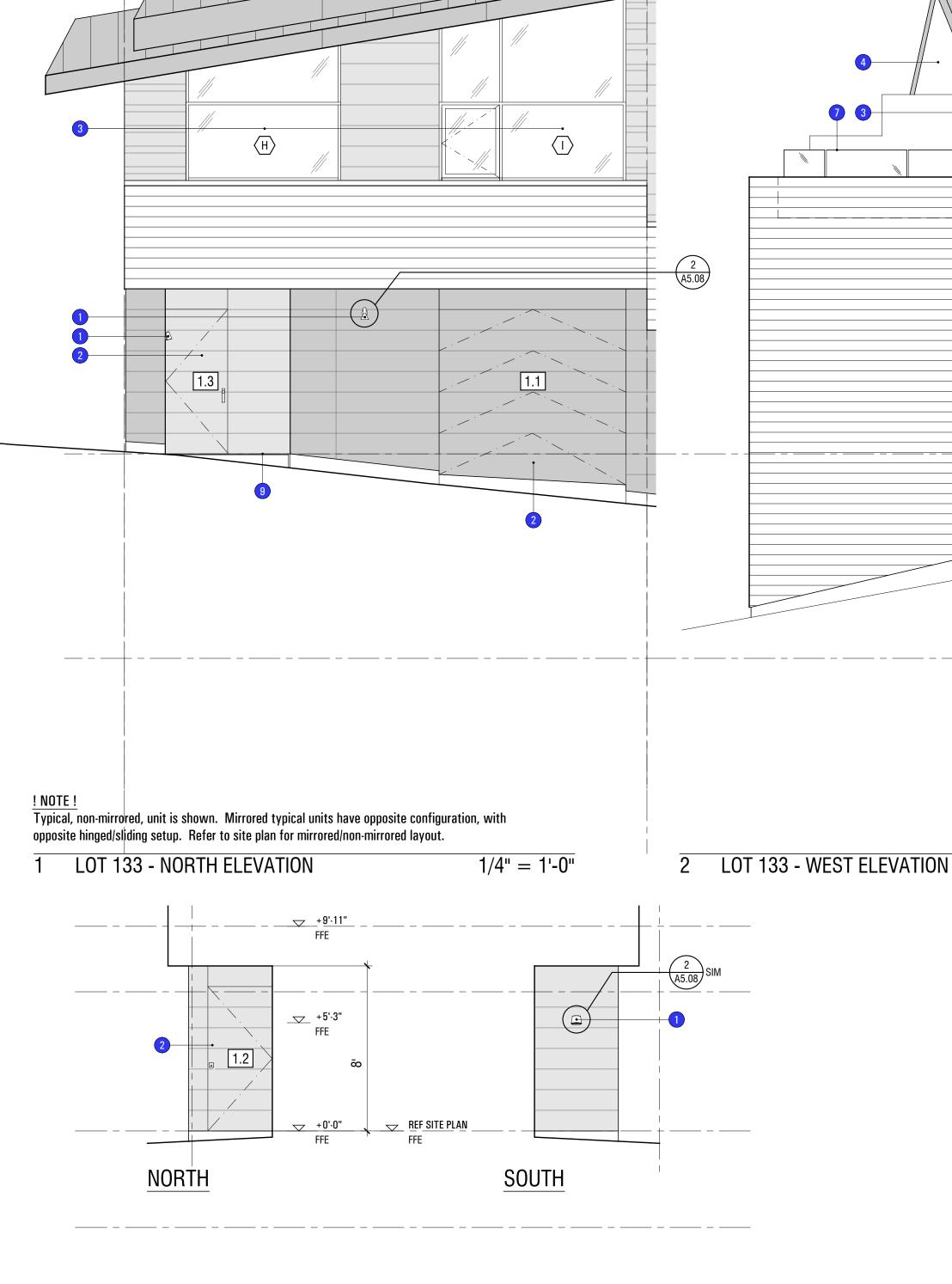
! NOTE ! Typical, non-mirrored, unit is shown. Mirrored typical units have opposite configuration, with opposite hinged/sliding setup. Refer to site plan for mirrored/non-mirrored layout.

4 LOT 133 - HIDDEN ELEVATIONS @ ENTRY

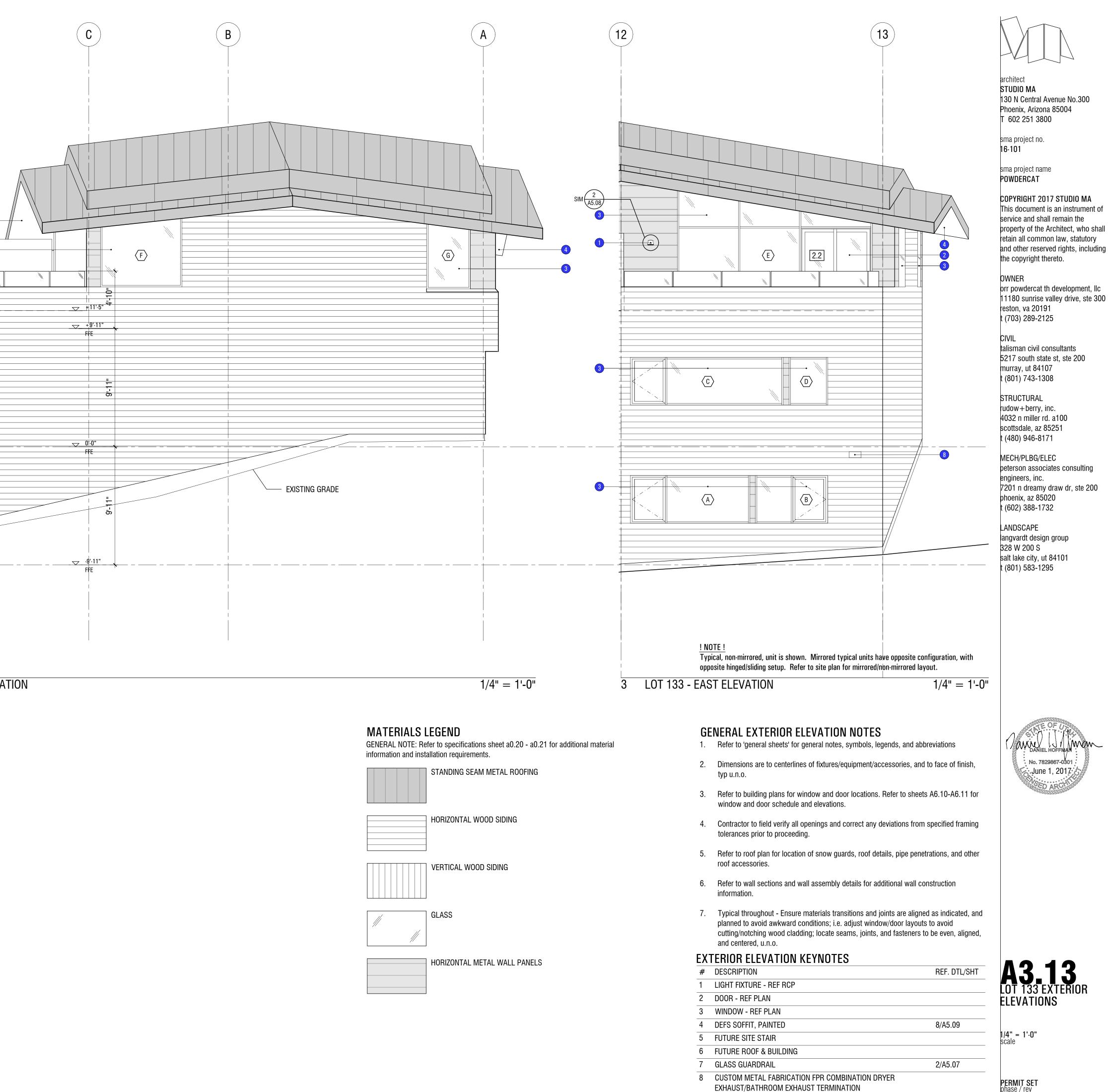
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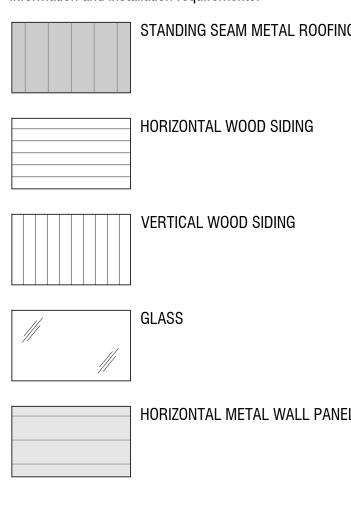






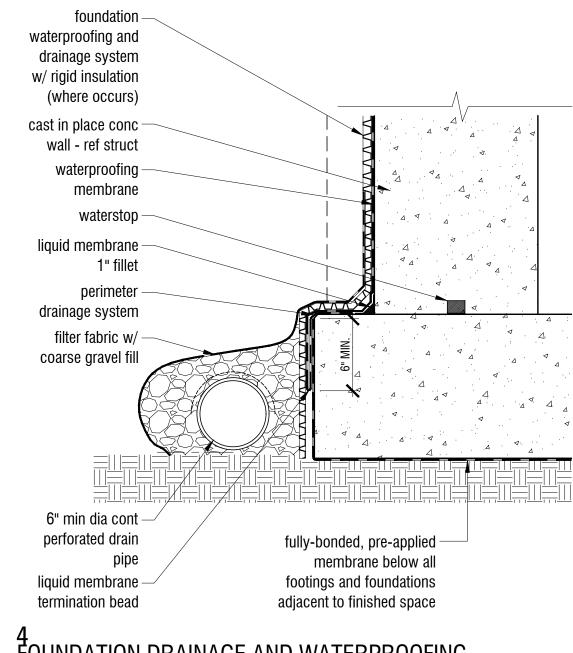
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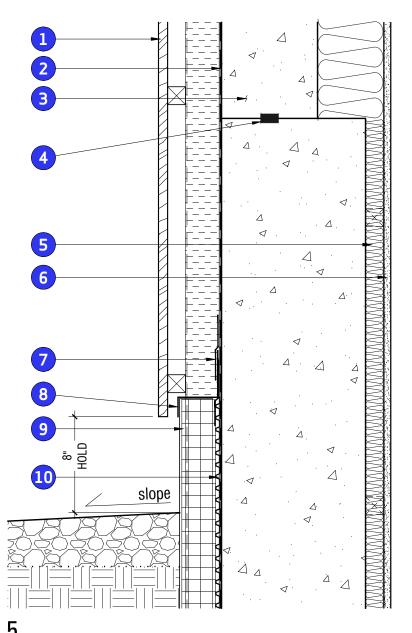


9 CAST IN PLACE CONCRETE; REF SPEC FOR FINISH

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WOOD CLADDING OVER FOUNDATION WALL 1-1/2"=1'-0"

KEYED NOTES 1.

wood siding _

continuous

insulation @

framed wall –

weather barrier

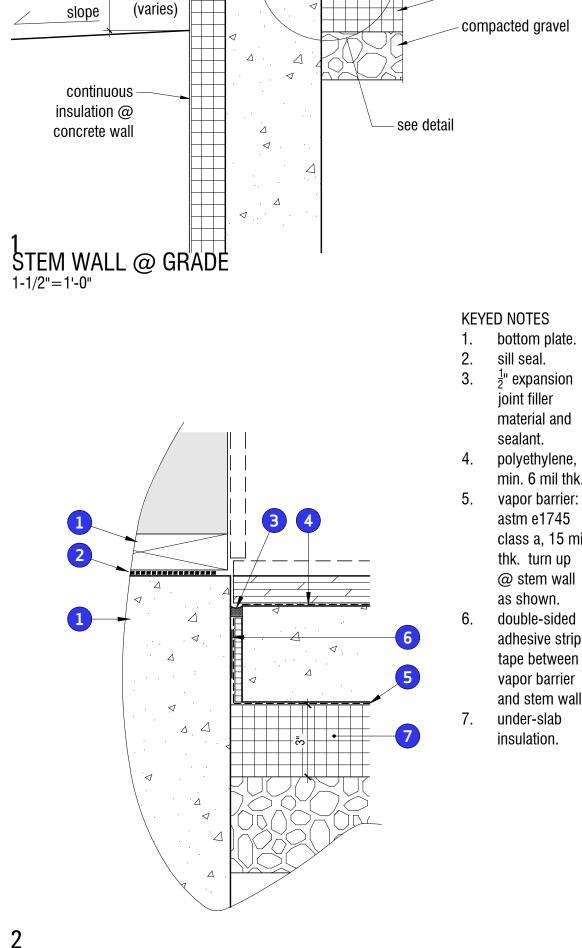
see detai⊢

8" HOLF

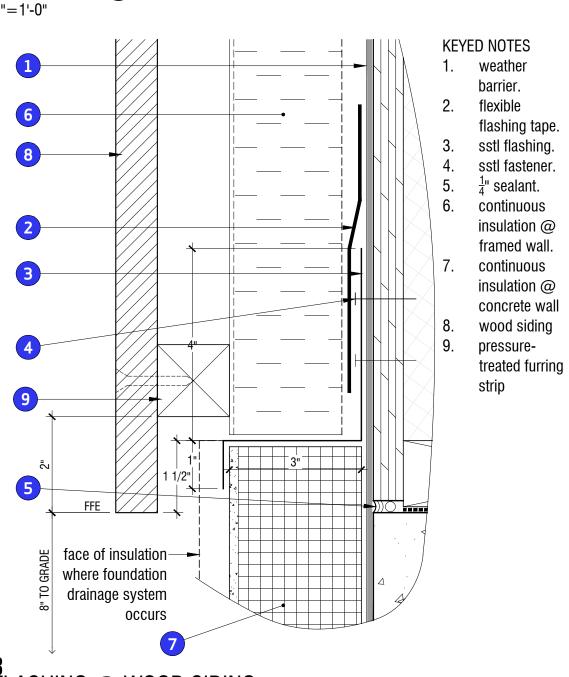
grade

airspace _

- wood cladding o/ p/t furring o/ cont insulation waterproofing membrane on
- face of conc wall - cont c.i.p. conc wall
- ref struct waterstop at 4.
- cold joints, typ batt insulation at int furred
- wall int finish - ref
- plan self-adhesive
- flexible flashing tape sstl 'zee'
- flashing
- cont rigid insulation 10. below-grade
- foundation waterproofing and drainage system



 \rightarrow



FLASHING @ WOOD SIDING 6"=1'-0"

GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. **REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.**

wall finish & base

insulation & framing

finish flooring as

radiant heating

- slab on grade

under slab

insulation

subfloor o/ concrete

joint filler

sealant.

material and

min. 6 mil thk.

astm e1745

thk. turn up

@ stem wall

as shown.

double-sided

adhesive strip

tape between

vapor barrier

and stem wall.

under-slab

insulation.

class a, 15 mil

- scheduled

as scheduled

- per plan

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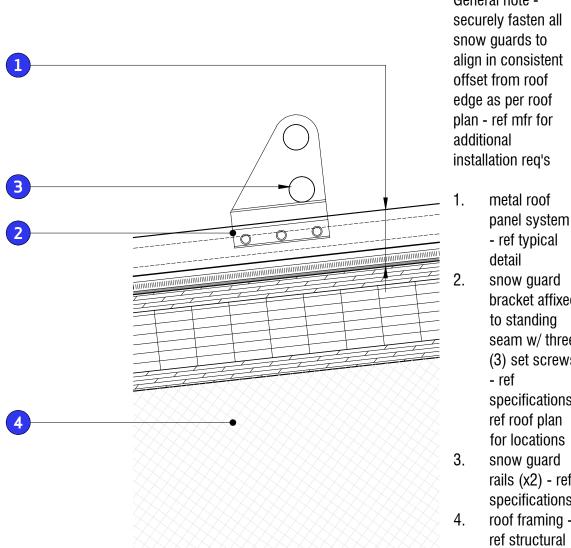




AS NOTED scale

PERMIT SET phase / rev **2017.06.01** date

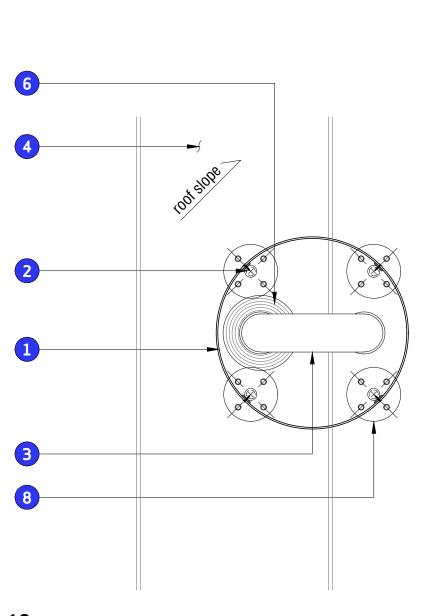
SLAB EDGE @ STEM WALL





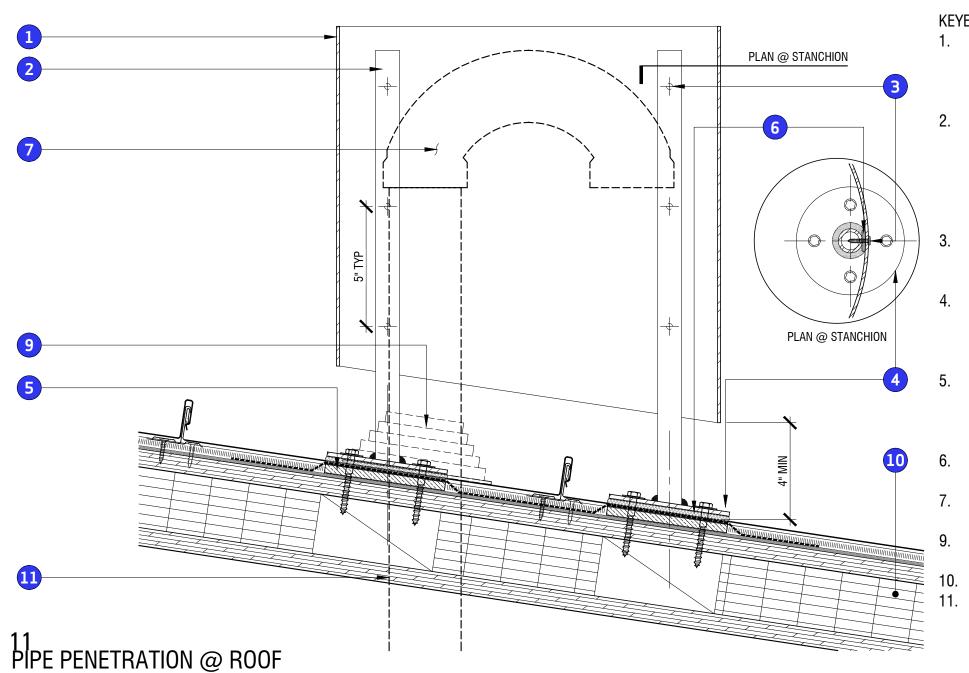
specifications

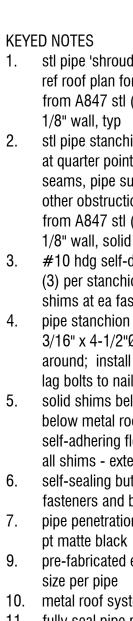
ref structural

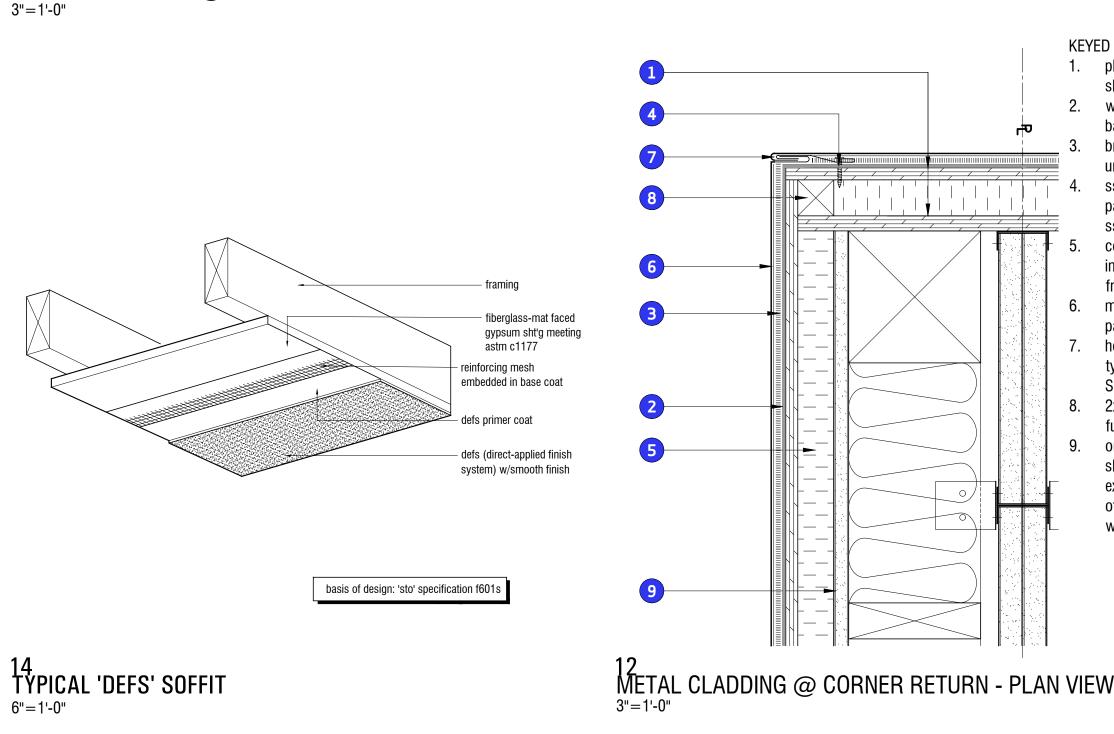


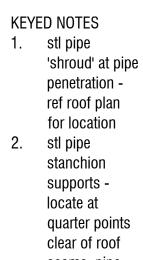












- seams, pipe supports, brackets, or other obstructions, typ pipe penetration ref plbg for type; pt matte
- black metal roof 4. below, typ 5. base plates at
- stanchions, typ of four (4) pre-fabricated epdm pipe flashing; size per pipe
- 1. stl pipe 'shroud' at pipe penetration
 - ref roof plan for location; fabricate from A847 stl (weathering) 16"Ø x

DEFS to be

of sheathing;

terminate to

continuous to face

flashing tape with

compatible sealant

- stl pipe stanchion supports locate at quarter points clear of roof seams, pipe supports, brackets, or other obstructions, typ; fabricate from A847 stl (weathering) 1"Ø x 1/8" wall, solid stl plate top to match #10 hdg self-drilling screws; min (3) per stanchion - install w/ epdm
- shims at ea fastener pipe stanchion base plate - A847 stl 3/16" x 4-1/2"Ø - 1/4" fillet weld all around; install w/ (4) 1/4" x 2" hdg lag bolts to nailers below, typ solid shims below ea base plate, typ
- below metal roof panel; provide self-adhering flexible flashing tape o/ all shims - extend min 4" all around 6. self-sealing butyl tape at all
 - fasteners and below base plates, typ pipe penetration - ref plbg for type;
 - pre-fabricated epdm pipe flashing;
 - metal roof system ref typ detail fully seal pipe penetration through roof assembly

KEYED NOTES

1. plywood

sheathing

weather

barrier, cont

underlayment

panel slip w/

sstl fastener.

framed wall.

metal wall

panel, typ

hook seam,

typ per

2x wood

furring

omit wood

sheathing at

of demising

exterior portion

wall extension

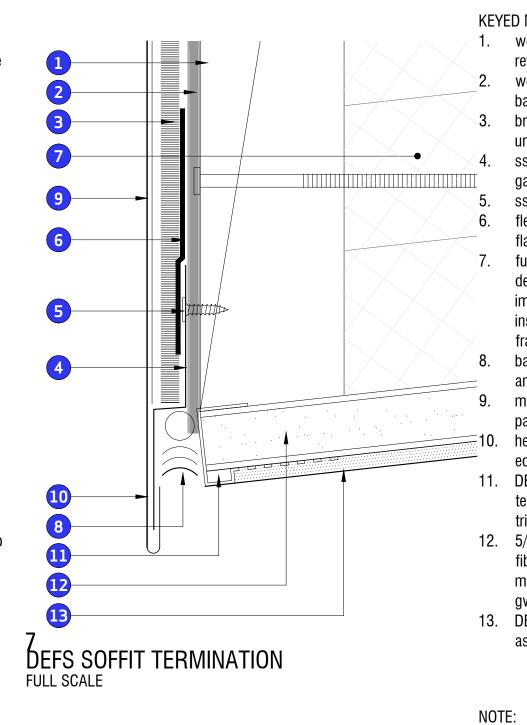
8.

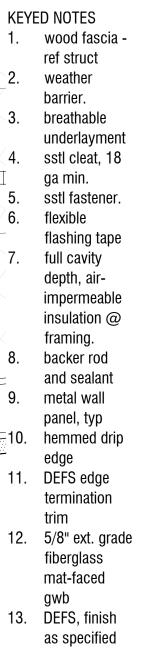
SMACNA

continuous insulation @

breathable

sstl metal





Refer to Typical

Detail for typical

requirements.

Wood Wall Cladding

notes and installation

flexible flashing tape

20ga sstl flashing

and fastener, slope

away from building

KEYED NOTES

2.

1. wood framing

/ sheathing ·

wood cladding

see typ details

ref struct

assembly

continuous

insulation @

framed wall.

flashing w/

sstl fasteners

sstl j flashing

sstl 'zee'

w/ sstl

weather

insulated

corner per

advanced

framing techniques

NOTE: wd cladding

vertically - horiz is

shown installed

sim.

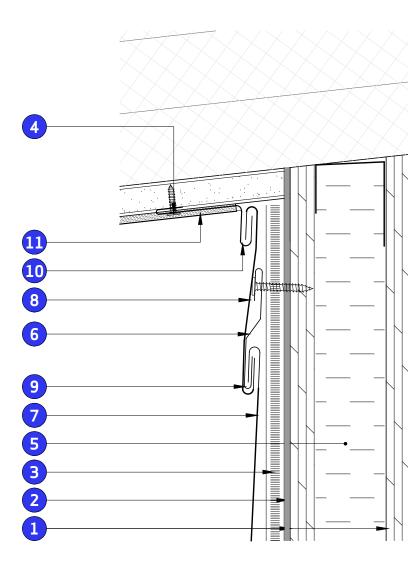
fasteners;

rivet where

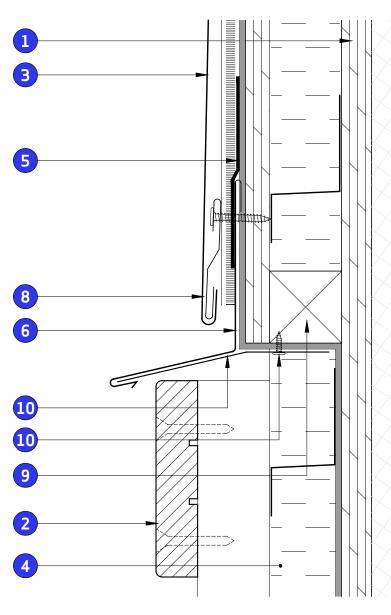
barrier cont

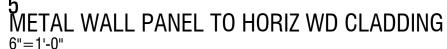
around corner

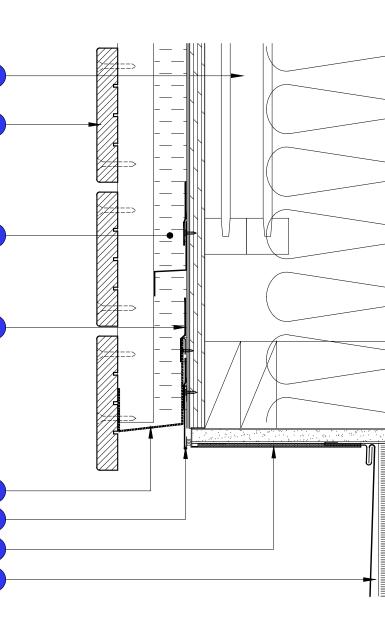
back-to-back



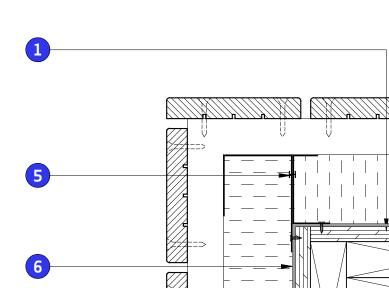
METAL CLADDING @ DEFS SOFFIT 6"=1'-0"





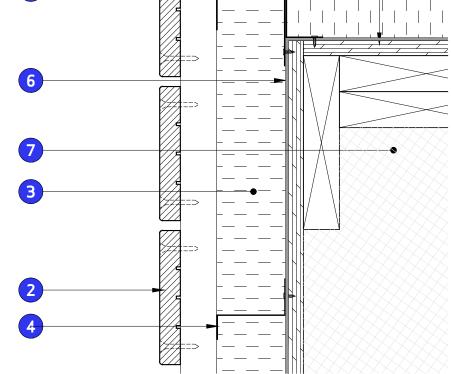


HORIZONTAL WOOD CLADDING AT SOFFIT 3"=1'-0"



WOOD CLADDING @ DEFS SOFFIT

3"=1'-0"



WOOD CLADDING AT CORNER - PLAN VIEW 3"=1'-0"

KEYED NOTES 1. plywood sheathing weather <u>~2.</u> barrier. breathable 3. underlayment sstl fastener. ×4. continuous insulation @ framed wall. sstl metal panel clip metal wall panel, typ custom metal wall panel align to soffit slope hook seam, typ per SMACNA 10. termination flashing to match metal wall panel DEFS o/ ext. grade fiberglass mat-faced gwb

KEYED NOTES 1. wood framing / sheathing ref struct horizontal wood cladding assembly see typ details metal wall panel assembly see typ details continuous insulation @ framed wall. flexible flashing tape brake-formed ptd alum sill flashing (0.080in) w/ hemmed drip alum cleat to match sill flashing; ptd side faces out metal wall panel w/ hemmed drip p/t furring strip 10. sstl fastener

(7)

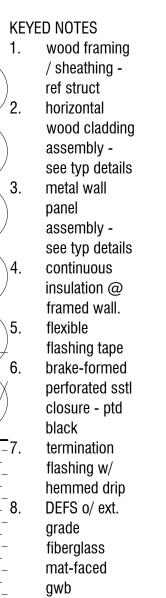
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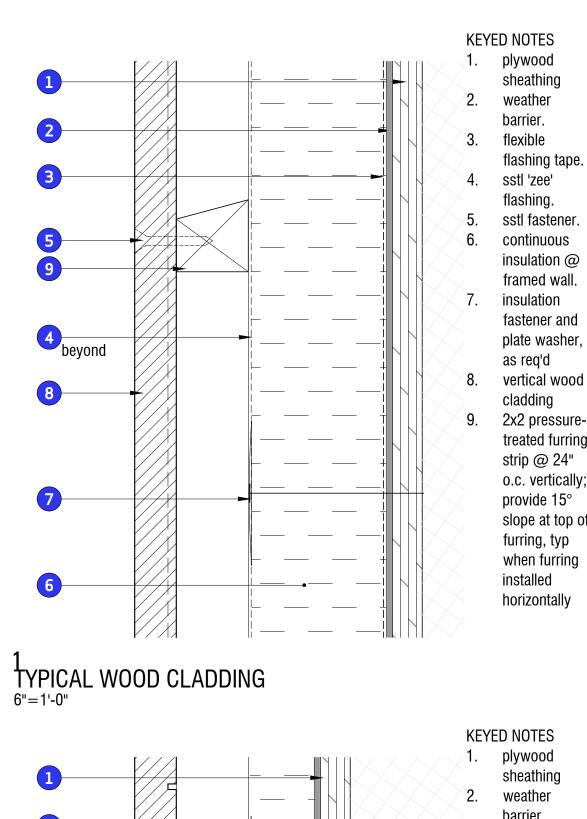
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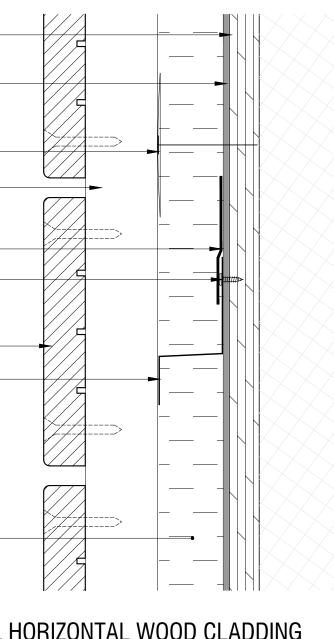
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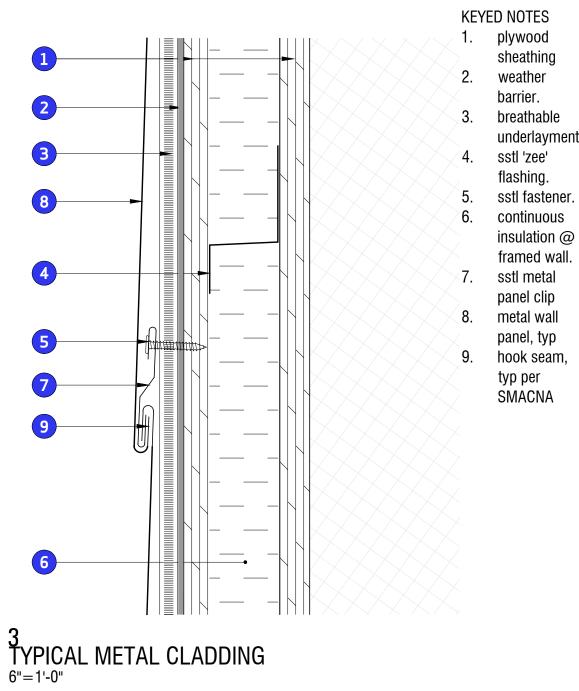
KEYED NOTES gwb







TYPICAL HORIZONTAL WOOD CLADDING 6"=1'-0"



GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. **REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.**

sheathing

weather

barrier.

flexible

sstl 'zee'

flashing.

continuous

insulation

as req'd

cladding

2x2 pressure-

strip @ 24"

provide 15°

furring, typ

installed

sheathing

barrier.

flexible

flashing.

sstl fastener.

insulation @

framed wall.

fastener and

plate washer,

wood cladding

treated furring

strip @ 24"

o.c. horiz.

as req'd

9. 2x2 pressure-

4. sstl 'zee'

6. continuous

7. insulation

8. horizontal

flashing tape.

-3.

5.

horizontally

when furring

o.c. vertically;

slope at top of

treated furring

sstl fastener.

insulation @

framed wall.

fastener and

plate washer,

flashing tape.

architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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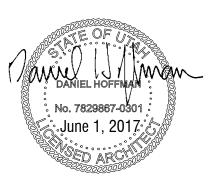
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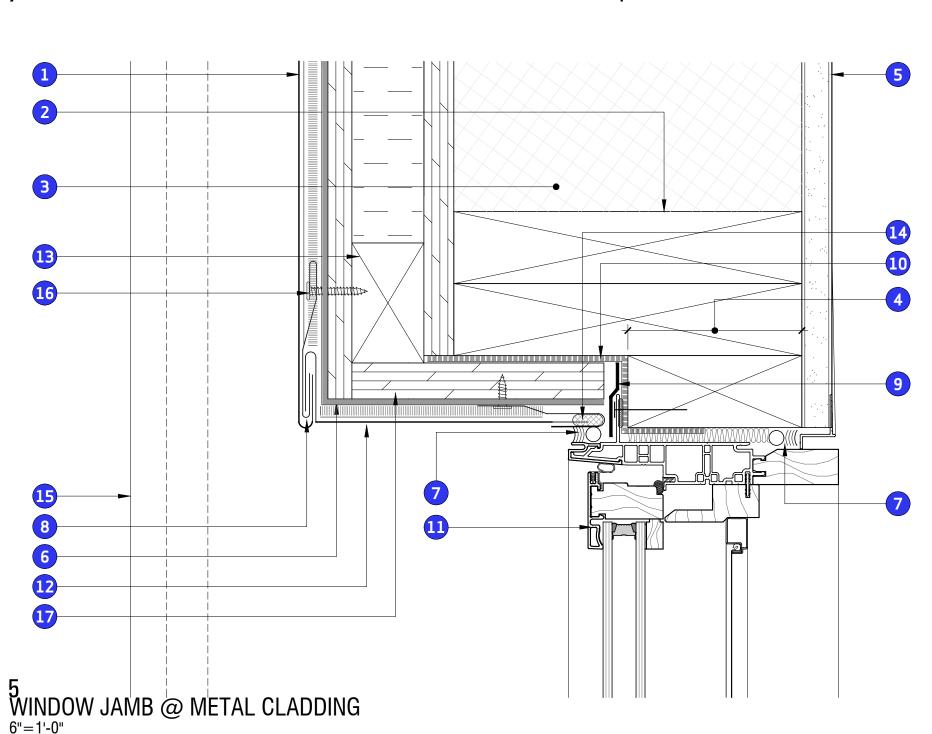
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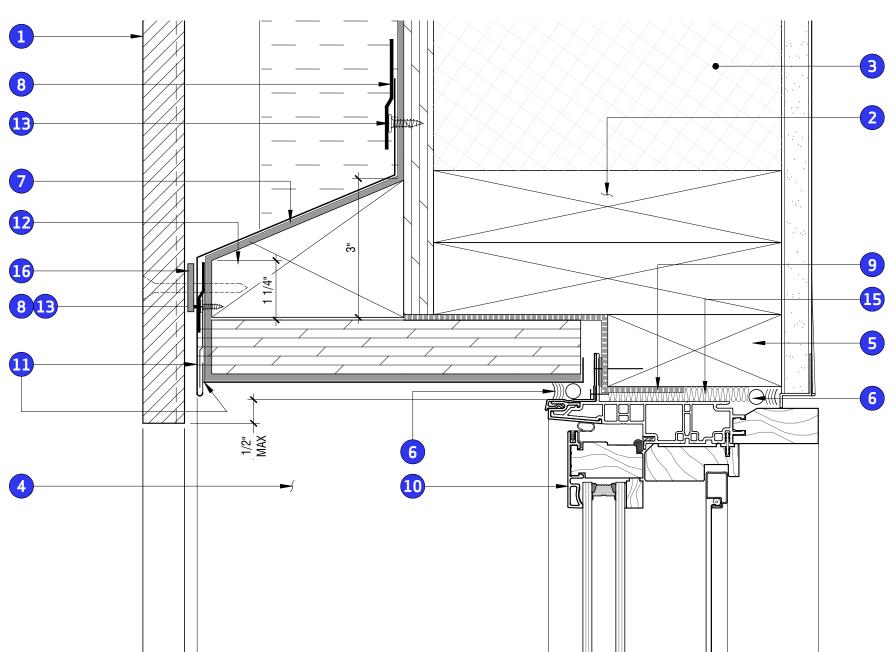
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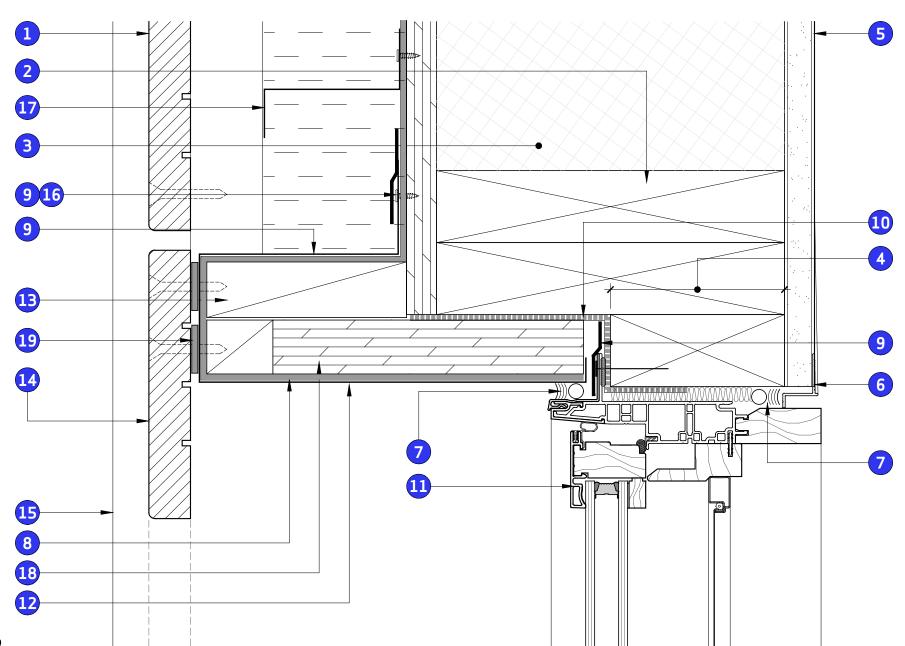


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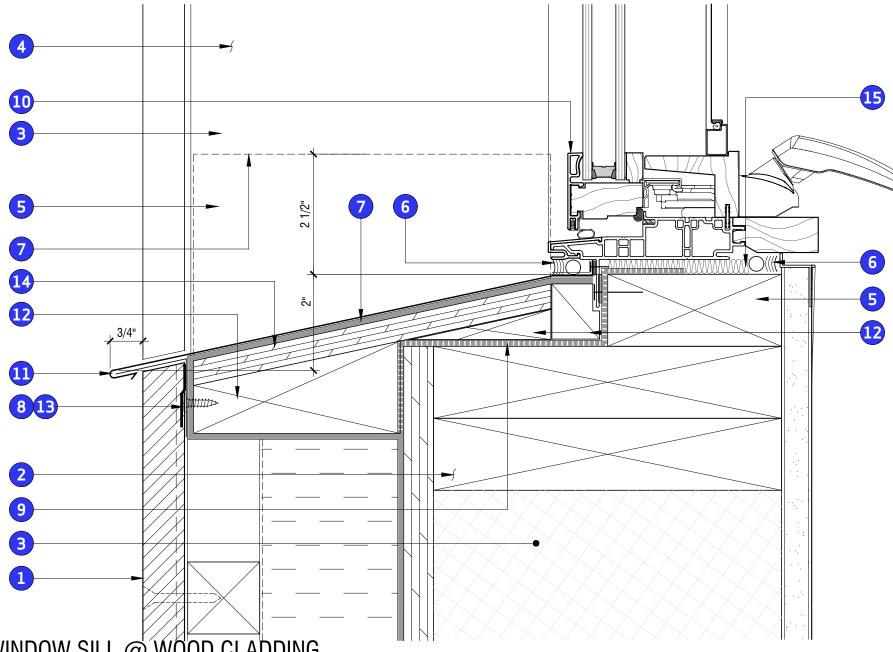








WINDOW JAMB @ WOOD CLADDING



WINDOW SILL @ WOOD CLADDING

KEYED NOTES

- metal cladding assembly ref typical detail
- wood framing / sheathing ref struct
- continuous insulation @ framed wall
- 2x wood buck size to align inside face of jamb w/ interior finish
 interior finish as scheduled
- weather barrier, cont around framing backer rod and sealant
- Backer rou and sediant
 metal termination lock seam w/ sstl
 cleat and sstl fastener
- 9. flexible flashing tape
 10. self-adhering flashing fully wrap
- head/jamb/sill of opening
 11. window jamb w/ integral nailing flange - set in continuous bead of
- sealant 12. brake-formed metal cladding to match wall panels
- 13. 2x p/t nailer 14. terminate metal cladding in hook
 - seam w/ cont bead of sealantl 15. sill below
 - 16. sstl cleat and fastener, typ
 - 17. 3/4" ext grade plywood extend to within 1/4" of nail flange at window; shim to true/plumb

KEYED NOTES

(Refer to Typ Jamb Detail for notes and dimensions not indicated here.)

- 1. wood cladding assembly ref typical detail
- wood framing / sheathing ref struct
 cont insulation @ framed wall
- 4. jamb flashing beyond
- 5. 2x wood buck size to align inside face of jamb w/ interior finish
- 6. backer rod and sealant
- weather barrier, cont around framing
 flexible flashing tape
- 9. self-adhering flashing fully wrap
- head/jamb/sill of opening
 10. window jamb w/ integral nailing flange - set in continuous bead of sealant
- brake-formed alum (0.080in) two-piece head flashing w/ hemmed drip edge as indicated - pnt to match window
- p/t shaped blocking
 cont alum cleat (0.080in) w/ sstl fastener, typ
- 14. 1-1/8" ext grade plywood15. expanding foam insulation typ all
- around shim spaces 16. 3/16" thk (min.) x 1" dia high durometer EPDM washer/space @ each fastener thru head flashing, typ

KEYED NOTES

- 1. wood cladding assembly ref detail
- 2. wood framing / sheathing ref struct
- cont insulation @ framed wall
 2x wood buck size to align inside
- face of jamb w/ interior finish
- 5. interior finish as scheduled
- 6. ptd alum 'z' trim w/ 1/4" leg (Fry Reglet DRMZ-625-25, or eq)
- backer rod and sealant
 weather barrier, cont around framing
- 9. flexible flashing tape
- 10. self-adhering flashing fully wrap
- head/jamb/sill of opening 11. window jamb w/ integral nailing flange - set in continuous bead of sealant
- 12. brake-formed alum (0.080in)
- trim/cladding pnt to match window 13. p/t nailer - align w/ edge of wood cladding
- 14. cantilevered wood cladding fasten to nailers
- 15. sill below
- 16. sstl fastener, typ
 17. sstl 'zee' flashing, ptd black
- 18. 1-1/8" ext grade plywood extend to within 1/4" of nail flange at window; shim to true/plumb
- 19. 3/16" thk (min.) x 1" dia high durometer EPDM washer/space @ each fastener thru head flashing, typ

KEYED NOTES

(Refer to Typ Jamb Detail for notes and dimensions not indicated here.)1. wood cladding assembly - ref

- typical detail
- wood framing / sheathing ref struct
- . cont insulation @ framed wall . jamb flashing beyond

.. jainin 11451

- 2x wood buck size to align inside face of jamb w/ interior finish
 backer rod and sealant
- . weather barrier, cont around framing
- flexible flashing tape
 active discrimination of the set of the
- 9. self-adhering flashing fully wrap head/jamb/sill of opening
- 10. window jamb w/ integral nailing flange - set in continuous bead of sealant
- 11. brake-formed alum (0.080in) sill flashing w/ hemmed drip edge as indicated pnt to match window
 12. p/t shaped blocking
- 13. cont alum cleat (0.080in) w/ sstl fastener, typ
- 14. 5/8" ext grade plywood
- 15. expanding foam insulation typ all around shim spaces

AS NOTED

PERMIT SET phase / rev 2017.06.01 date

GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.

ing - fully wrap16-101peningsma project namentegral nailingsma project nametinuous bead ofPOWDERCAT

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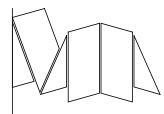
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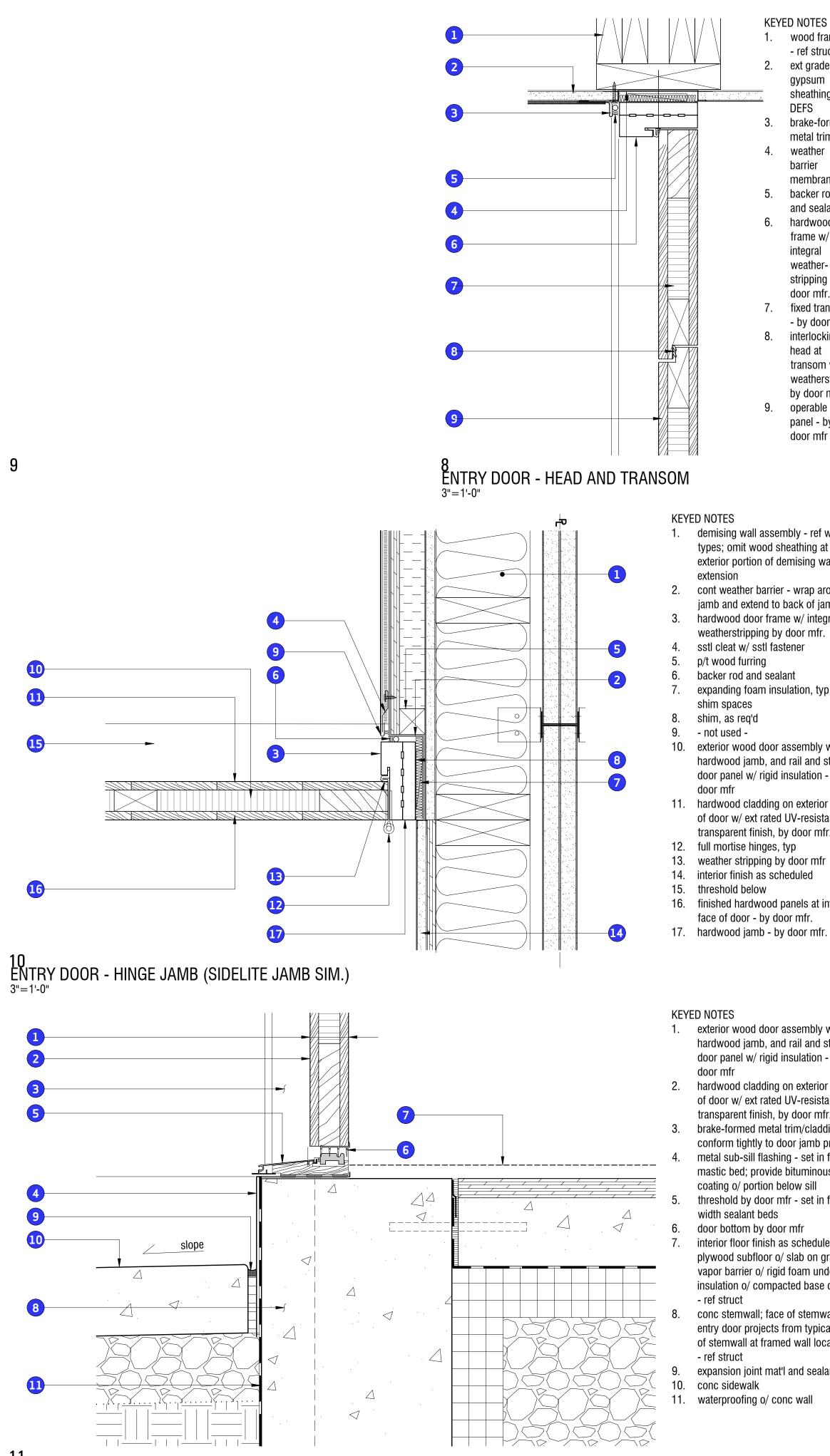
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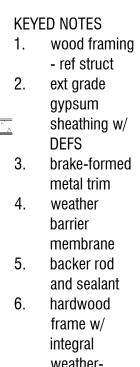
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11 ENTRY DOOR - SILL 3"=1'-0"





interlocking 8. head at transom w/ weatherstripping by door mfr operable door panel - by

door mfr

1. demising wall assembly - ref wall types; omit wood sheathing at exterior portion of demising wall

> cont weather barrier - wrap around jamb and extend to back of jamb hardwood door frame w/ integral weatherstripping by door mfr. sstl cleat w/ sstl fastener

2

(9)

10-

backer rod and sealant expanding foam insulation, typ at all

10. exterior wood door assembly w/ hardwood jamb, and rail and stile door panel w/ rigid insulation - by

11. hardwood cladding on exterior face of door w/ ext rated UV-resistant transparent finish, by door mfr.

14. interior finish as scheduled

16. finished hardwood panels at interior face of door - by door mfr. 17. hardwood jamb - by door mfr.

1. exterior wood door assembly w/ hardwood jamb, and rail and stile door panel w/ rigid insulation - by

2. hardwood cladding on exterior face of door w/ ext rated UV-resistant transparent finish, by door mfr. 3. brake-formed metal trim/cladding; conform tightly to door jamb profile metal sub-sill flashing - set in full mastic bed; provide bituminous

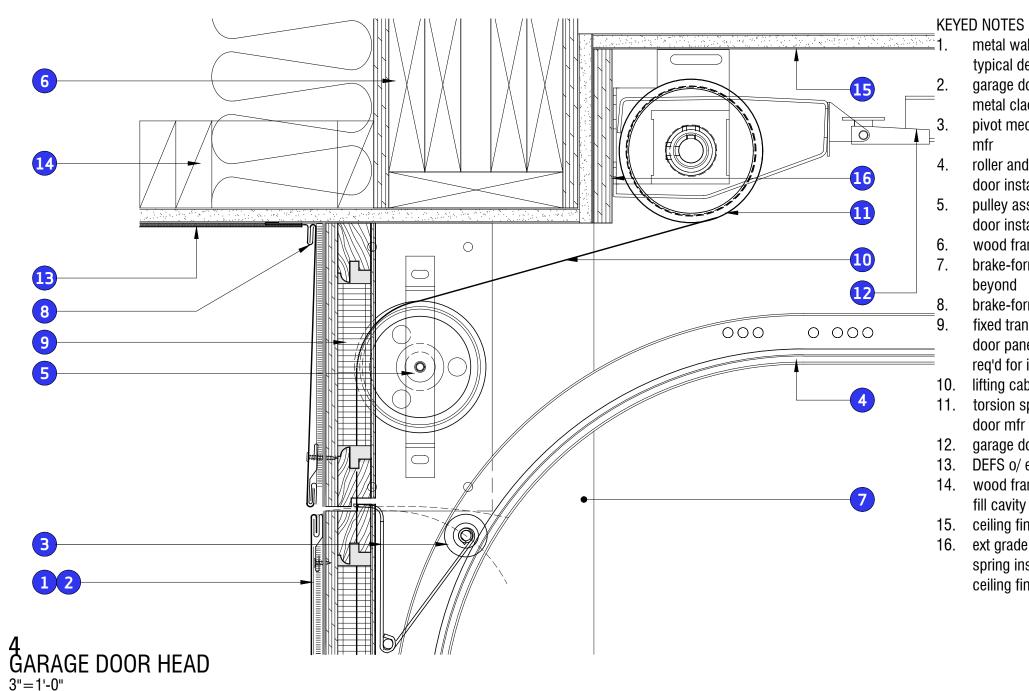
coating o/ portion below sill threshold by door mfr - set in full width sealant beds

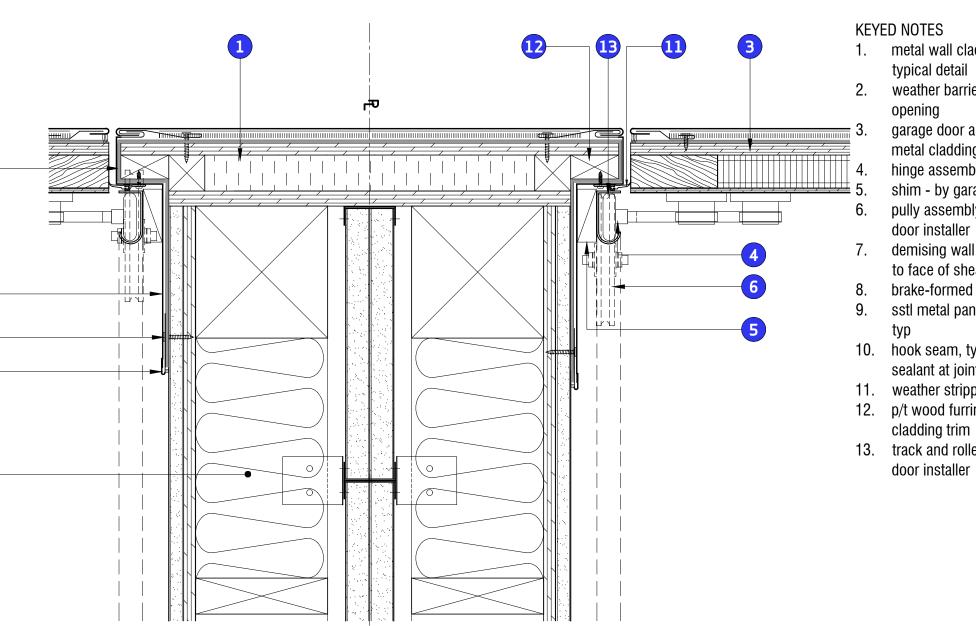
door bottom by door mfr interior floor finish as scheduled o/ plywood subfloor o/ slab on grade o/ vapor barrier o/ rigid foam underslab

insulation o/ compacted base course conc stemwall; face of stemwall at

entry door projects from typical face of stemwall at framed wall locations expansion joint mat'l and sealant

waterproofing o/ conc wall





GARAGE DOOR JAMB @ DEMISING WALL 3"=1'-0"

metal wall cladding assembly - ref typical detail

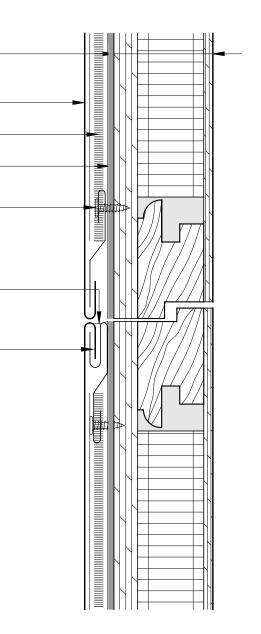
- garage door assembly by mfr, w/ metal cladding by project
- pivot mechanism by garage door roller and track assembly - by garage
- door installer pulley assembly - above; by garage
- door installer wood framing - ref struct
- brake-formed metal trim/cladding
- brake-formed termination trim fixed transom panel to match garage door panel; provide addt'l frm'g as

(7)

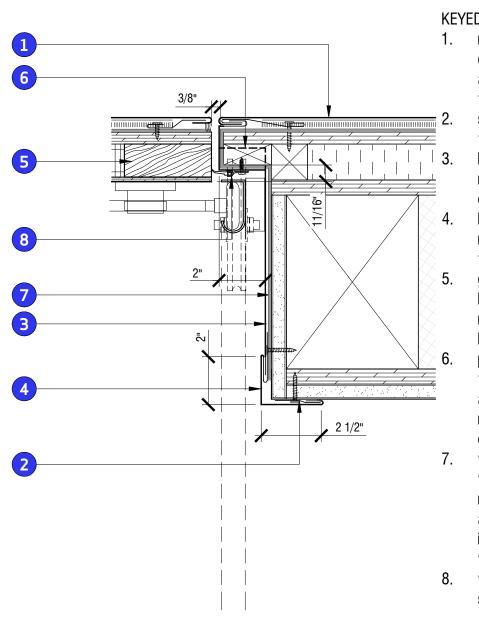
6

- reg'd for installation 10. lifting cable - by garage door mfr 11. torsion spring assembly - by garage
- door mfr 12. garage door operator track 13. DEFS o/ ext grade gypsum sheathing
- 14. wood framing for finish installation fill cavity w/ batt insulation
- 15. ceiling finish as scheduled 16. ext grade MDO shims as req'd for
- spring installation paint to match ceiling finish

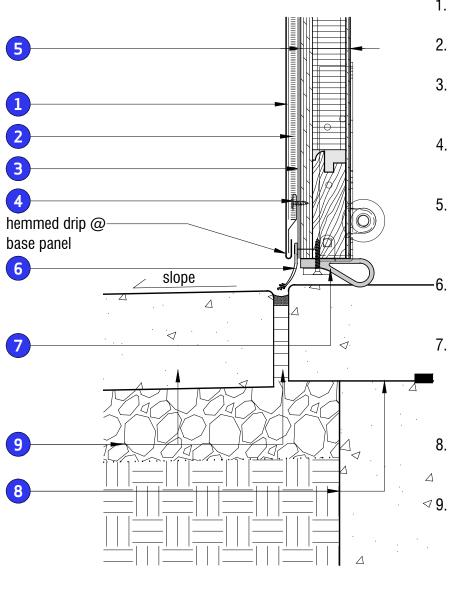
- 1. metal wall cladding assembly ref
- weather barrier cont wrap around
- garage door assembly by mfr w/ metal cladding by project
- hinge assembly by garage door mfr shim - by garage door installer
- pully assembly above; by garage
- 7. demising wall ref wall types; cont to face of sheathing
- 8. brake-formed metal trim/cladding 9. sstl metal panel clip w/ sstl fastener,
- 10. hook seam, typ per SMACNA w/ sealant at joint
- 11. weather stripping, typ
- 12. p/t wood furring return metal
- 13. track and roller assembly by garage



TYPICAL METAL CLAD GARAGE DOOR SECTION 6"=1'-0"



GARAGE DOOR JAMB @ SHEARWALL 3"=1'-0"



TYPICAL METAL CLAD GARAGE DOOR SECTION 3"=1'-0"

KEYED NOTES

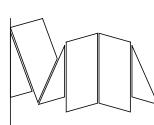
- 1. garage door assembly - by mfr: 1/2" marine grade plywood o/ polystyrene insulation core o/ 3/16" exterior grade plywood liner w/ hardwood stile and rail panel construction.
- 2. metal wall panel, typ
- 3. breathable underlayment
- 4. self-adhering water resistant barrier
- 5. sstl metal panel clip w/
- sstl fastener
- 6. sstl top cleat hand-brake top panel
- edge as req'd 7. cont sealant

KEYED NOTES 1. metal wall cladding assembly - ref typ detail sstl clip w/ sstl fastener brake-formed metal trim/ cladding 4. brake-formed metal corner trim garage door by mfr w/ metal cladding by project p/t wood furring - omit at transom and return metal cladding trim wrap waterproof membrane

around to inside face of wall, typ weather stripping, typ

KEYED NOTES 1. metal wall

- panel
- 2. breathable underlayment self-adhering
- water resistant barrier
- 4. sstl metal panel clip w/
- sstl fastener. garage door
- panel
- assembly by mfr
- garage door sweep -
- pemko #V365 garage door
- sill seal pemko #N199 w/ 196A
- retainer bar 8. conc garage slab and stemwall
- \triangleleft 9. conc sidewalk w/ expansion joint at slab o/ aggregate base course and subgrade, typ



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sma project no. 16-101

sma project name POWDERCAT

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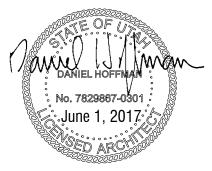
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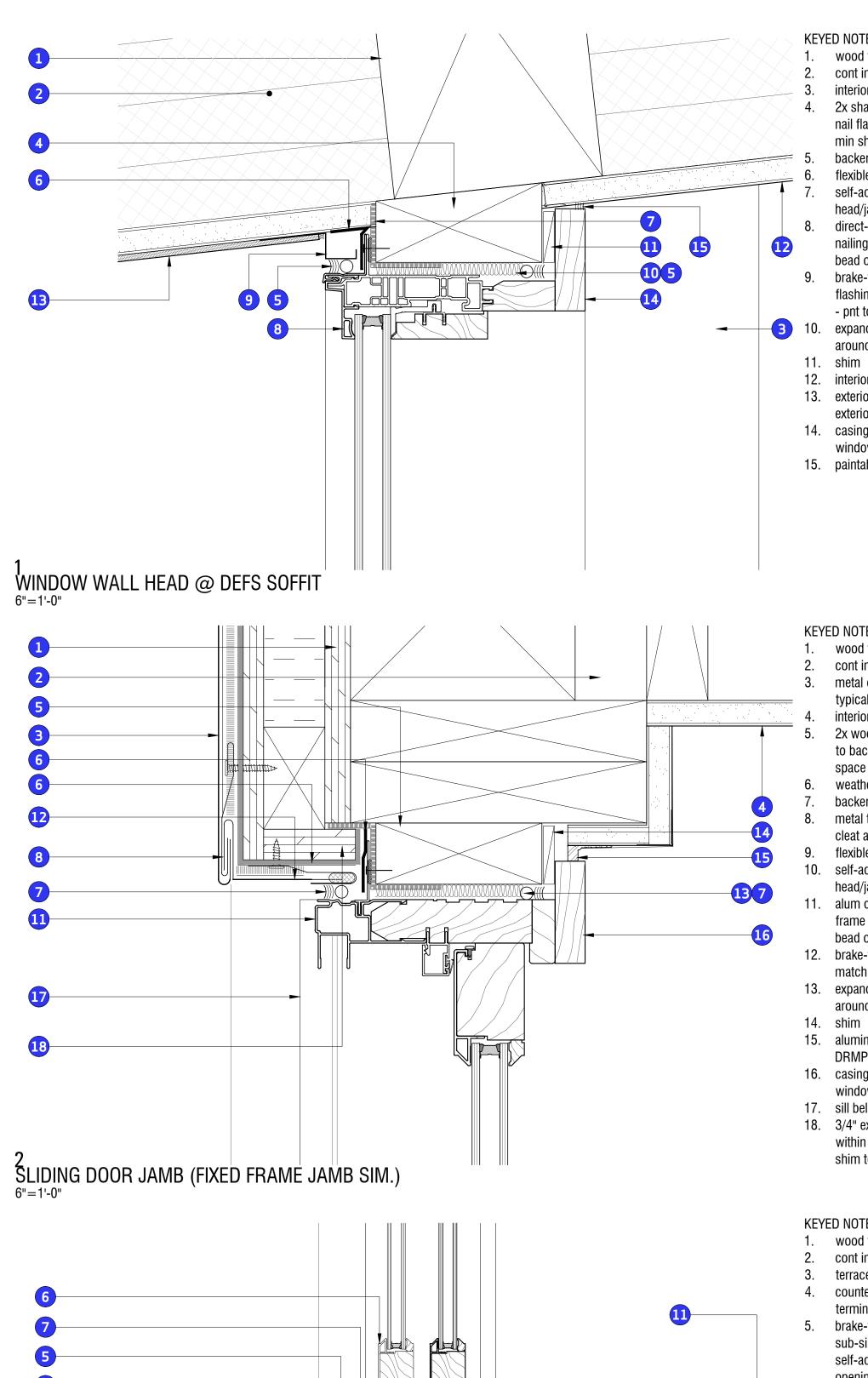
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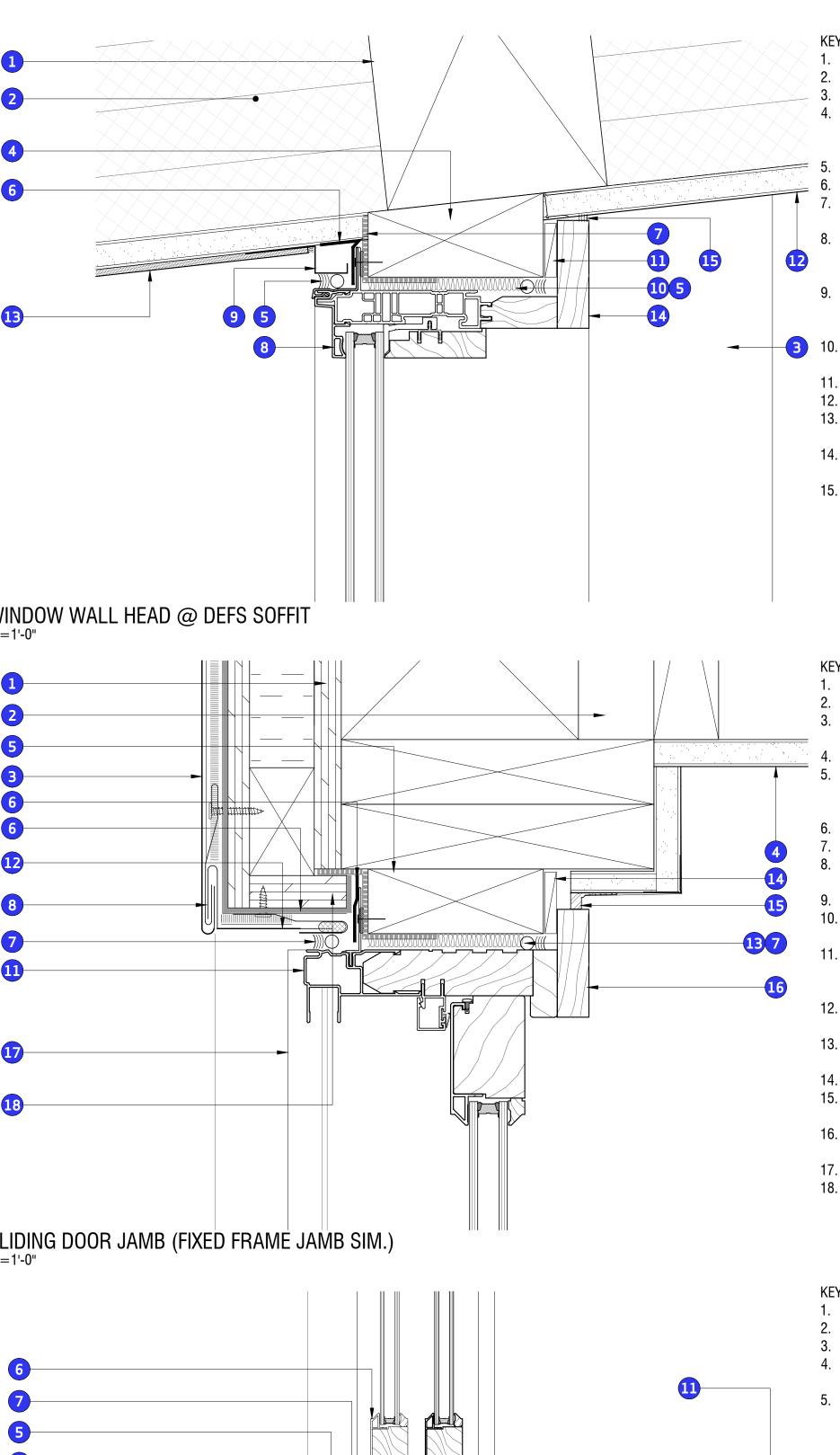


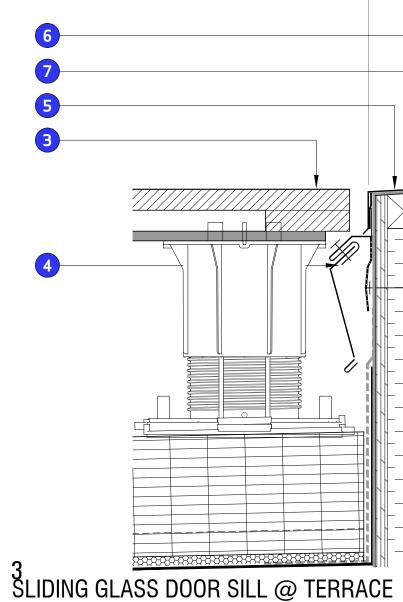
AS NOTED

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WINDOW WALL HEAD @ DEFS SOFFIT





3"=1'-0"

KEYED NOTES

- wood framing / sheathing ref struct cont insulation @ framed wall
- interior finish beyond
- 4. 2x shaped wood buck size from nail flange to back of jamb less 1/4" min shim space
- backer rod and sealant flexible flashing tape
- self-adhering flashing fully wrap head/jamb/sill of opening
- direct-set window head w/ integral nailing flange - set in continuous bead of sealant
- brake-formed alum (0.080in) head flashing w/ return edge as indicated - pnt to match window
- 3 10. expanding foam insulation typ all around shim spaces
 - 12. interior ceiling finish as scheduled 13. exterior soffit w/ DEFS finish o/
 - exterior grade gwb 14. casing - 2.5" width (v.i.f.) - by window mfr
 - 15. paintable sealant

KEYED NOTES

- 1. wood framing / sheathing ref struct
- cont insulation @ framed wall metal cladding assembly - ref
- typical details
- interior finish beyond
- 2x wood buck size from nail flange to back of jamb less 1/4" min shim
- space weather barrier, cont around framing
- backer rod and sealant metal temination lock seam w/ sstl
- cleat and fastener flexible flashing tape
- 10. self-adhering flashing fully wrap
- head/jamb/sill of opening 11. alum clad wood sliding glass door frame and sash - set in continuous bead of sealant; see door schedule
- 12. brake-formed metal cladding to match wall panels
- 13. expanding foam insulation typ all around shim spaces
- 14. shim
- 15. aluminum trim Fry Reglet DRMPET-375 - pnt to match wall
- 16. casing 2.5" width (v.i.f.) by window mfr
- 17. sill below 3/4" ext grade plywood - extend to within 1/4" of nail flange at window; shim to true/plumb

KEYED NOTES

- wood framing / sheathing ref struct
- cont insulation @ framed wall
- terrace paver system ref details 4. counterflashing o/ roofing
- termination flashing
- brake-formed alum (0.080in) sub-sill flashing - install o/ self-adhering flashing - fully wrap sill opening - provide w/ end dams; pnt to match window. slope exposed face to drain typ, provide drip edge aluminum clad wood sliding glass
- door sash ref door schedule alum sill track; set in continuous beads of sealant
- in-floor convector unit ref mech 9. 2x6 wood framing as req'd to support convector/stringer
- <u>10.</u> shim
- 11. floor finish as scheduled
 12. LVL stair stringer w/ 1-1/8" plywood treads and 3/4" plywood risers



AS NOTED scale

PERMIT SET phase / rev **2017.06.01** date

GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. **REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.**

-(2)

-1

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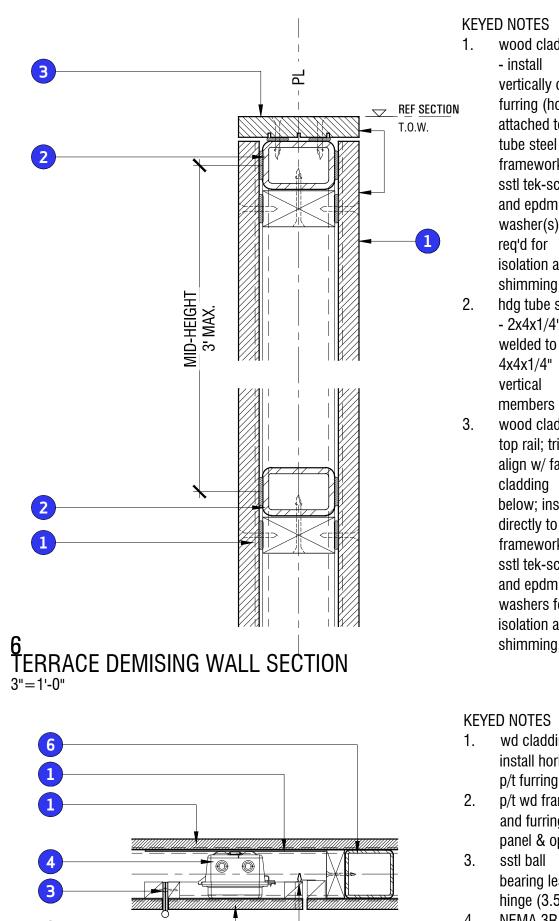
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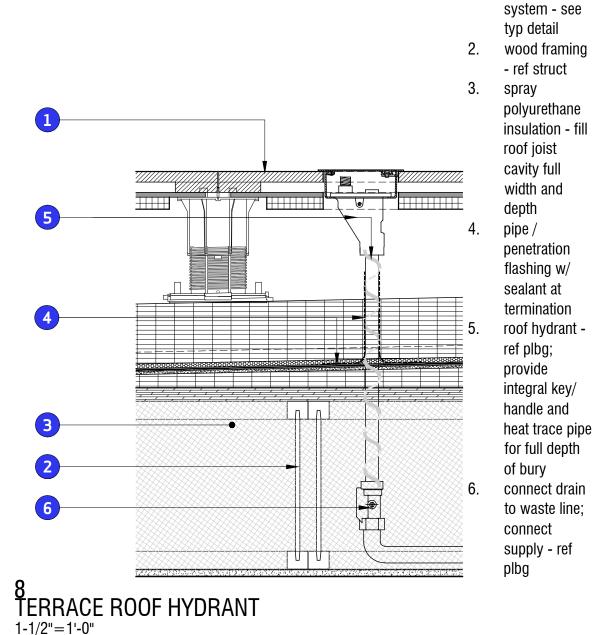
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8 11 1/4" ___₩₽₽₽₽₽

TERRACE DEMISING WALL ELECTRICAL DISCONNECT 1-1/2"=1'-0"

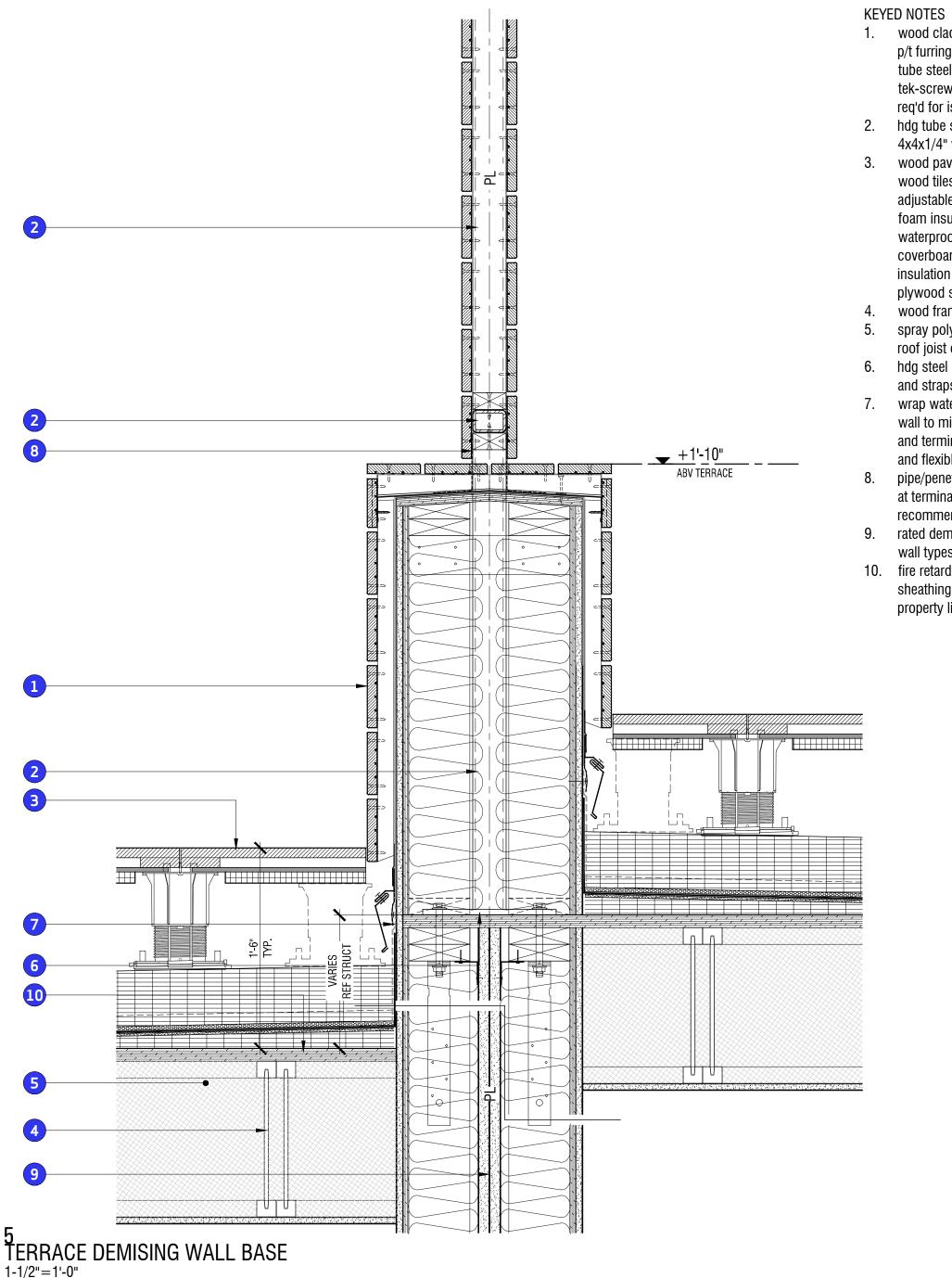


KEYED NOTES 1. wood cladding - install vertically o/ p/t furring (horiz) attached to hdg tube steel framework w/ sstl tek-screw and epdm washer(s) as req'd for isolation and shimming hdg tube steel - 2x4x1/4" welded to 4x4x1/4" vertical members wood cladding top rail; trim to align w/ face of cladding below; install directly to stl framework w/ sstl tek-screw and epdm washers for isolation and shimming.

1. wd cladding install horiz o/ p/t furring 2. p/t wd frame and furring @ panel & opn'g sstl ball bearing leaf hinge (3.5x4.5) NEMA 3R rated side-opn'g enclosure for disconnect ref elec dwgs cut notch in edge of panel for access, eas all corners and edges; provide spring catch aby and below hda tube steel column -4x4x1/4 - ref struct; install p/t furring w/ sstl tek screws hdg 10ga stl mounting plate 8. wd clad panel o/ disconnect

KEYED NOTES

1. wood paver



DECK OPEN'G SIZE PER MFR МлІлК עןען

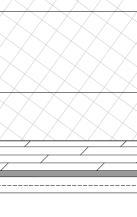
 TERRACE SYSTEM @ ROOF DRAIN LEADERS
 Image: Control of the system is a system of the system of th 1-1/2"=1'-0"

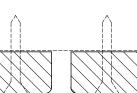
- 1. wood cladding install vertically o/ p/t furring (horiz) attached to hdg tube steel framework w/ sstl
- tek-screw and epdm washer(s) as req'd for isolation and shimming 2. hdg tube steel - 2x4x1/4" welded to
- 4x4x1/4" vertical members 3. wood paver system: wood tiles o/ snow-melt o/ adjustable paver pedestals o/ rigid foam insulation o/ drainage mat o/ waterproof membrane o/ 1/4" coverboard o/ sloped rigid foam insulation (1/4" per 12", typ) o/ plywood sheathing - ref struct
- 4. wood framing ref struct 5. spray polyurethane insulation - fill roof joist cavity full width and depth
- 6. hdg steel base plate w/ anchor bolts and straps - ref struct
- 7. wrap waterproofing membrane up wall to min. 4" above roof high point and terminate w/ counterflashing and flexible flashing tape
- pipe/penetration flashing w/ sealant at termination - affix per NRCA recommendations
- 9. rated demising wall framing ref wall types
- 10. fire retardant treated plywood sheathing for min 4' ea side of property line

triple studs at ea mounting bracket

hdg lag bolts - 3/8" x 3-1/2" w/ hdg washer and epdm isolation washer, typ of 4 ea bracket

3/8x6 A316 sstl flat stock milled to match height of guardrail bracket; min. 1/4" fillet weld full height ea side; pre-drill for lag screws - typ of 2 ea side - do not oversize > 1/32"

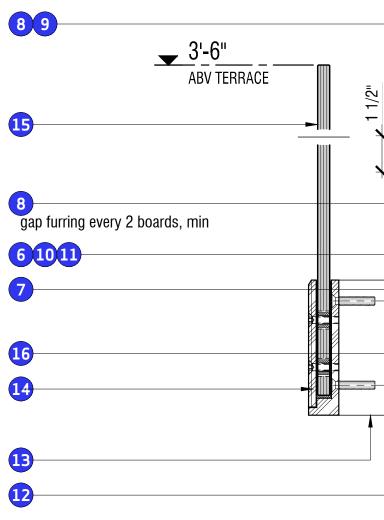




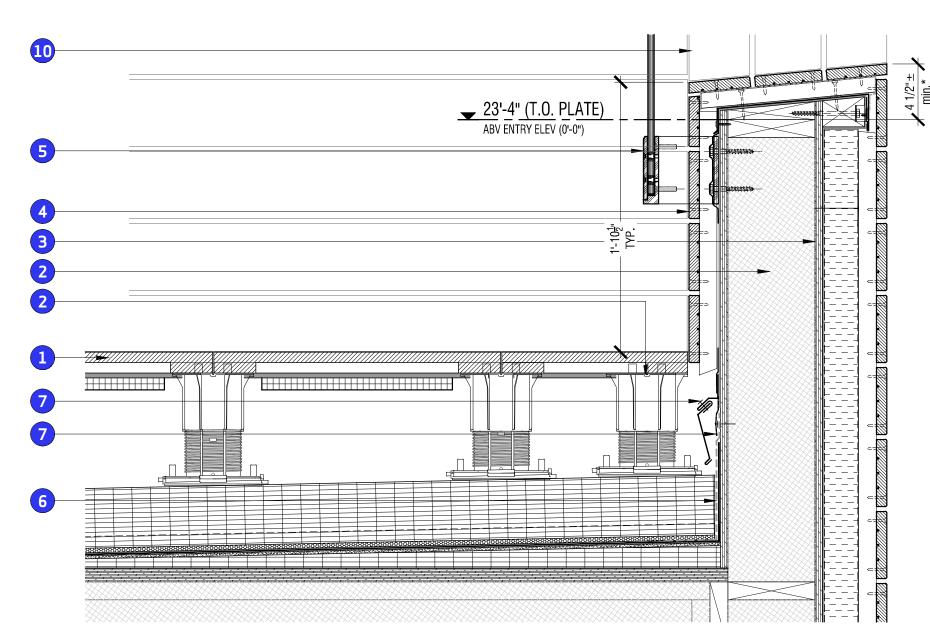
1x6 A316 sstl flat stock milled to match height of guardrail bracket; tap at centerline of flat stock to align w/ fastener locations on bracket - match fastener depth, diameter, and thread pitch as per manufacturer's installation req's

sstl glass guardrail bracket, typ two per panel; max 24" c.c. btw brackets

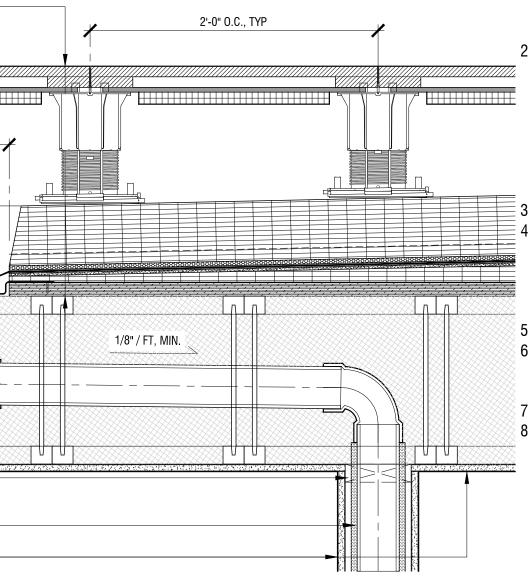
GLASS GUARDRAIL MOUNTING BRACKET 6"=1'-0"







TERRACE SYSTEM @ GUARDRAIL 1-1/2"=1'-0"



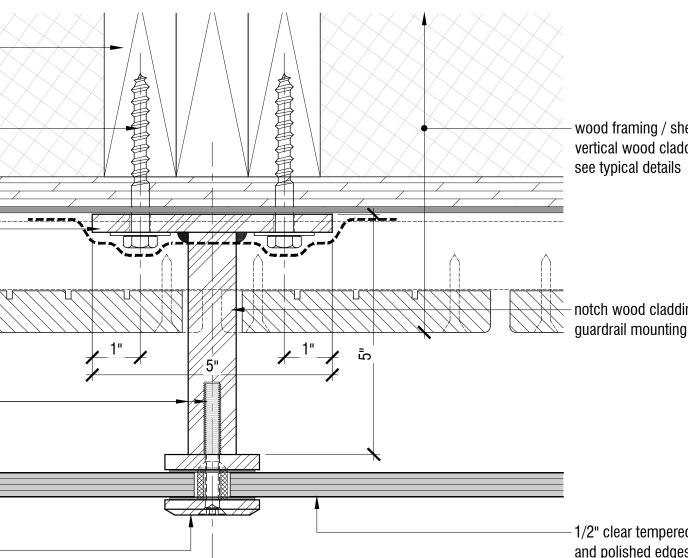
KEYED NOTES

1. roof drain w/ deck plate; overflow shown dashed beyond w/ 2" collar above primary drain - ref plbg wood paver system: wood tiles o/ snow-melt o/ adjustable paver pedestals o/ rigid

foam insulation o/ drainage mat o/ waterproof membrane o/ 1/4" coverboard o/ sloped rigid foam insulation (1/4" per 12", typ) o/ plywood sheathing - ref struct wood framing - ref struct 4. spray polyurethane insulation - fill roof joist cavity full width and depth; fully encapsulate roof drain leaders -

provide sealants/coatings as req'd prior to insulating roof drain leaders and fittings min 1/2" fiberglass pipe insulation

full height of stud cavity at drain leaders ceiling/wall finish as scheduled 8. interior non-load bearing wall framing



6 17 12 counterbore min. depth 2. **」 1 11**── 10of fastener + washer o/ cont typ typ waterproof membrane

wood framing / sheathing and vertical wood cladding assembly -

– notch wood cladding around uniting brackets, typ

1/2" clear tempered glass - seamed and polished edges all around; 60" panel width, maximum.

KEYED NOTES

- 3/8" dia @ 16" o.c. 1. wood framing / sheathing ref struct vertical wood cladding assembly see typ details
 - vertical wood cladding assembly less continuous insulation
 - waterproof membrane
 - sstl cleat, 20 ga min. sstl fastener.
 - flexible flashing tape
 - 2x p/t furring/blocking w/ 15° slope self-adhering waterproof deck
 - protector wrap
 - 10. 1" min butyl tape
 - ptd brake-formed aluminum cap flashing (0.080in) w/ hemmed drip edges; provide sstl cleats and fasteners
 - 12. hdg lag bolt and washer; provide epdm isolation washer at dissimilar metals, typ.
 - 13. sstl fabricated guardrail mount ref bracket detail
 - 14. sstl glass guardrail bracket, epdm setting pads, and sstl fasteners 15. 1/2" tempered glass guardrail w/
 - seamed and polished edges
 - notch wood cladding around guardrail mounting brackets, typ
 - 17. shaped p/t wood blocking

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sma project no. 16-101

sma project name POWDERCAT

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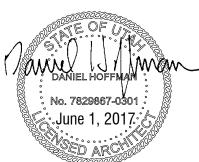
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KEYED NOTES

- wood paver system: wood tiles o/ snow-melt o/ adjustable paver pedestals o/ rigid foam insulation o/ drainage mat o/ waterproof roofing membrane o/ 1/4" coverboard o/ sloped rigid foam insulation (1/4" per 12", typ) o/ plywood sheathing - ref struct
- wood framing ref struct wood cladding assembly - ref typical detail
- wood cladding assembly less continuous insulation
- glass guardrail and bracket ref detail
- waterproof roofing membrane lap up wall sheathing to min 4" above roofing high point
- termination bar and flexible flashing tape
- two-piece stainless steel counterflashing and receptor w/ sstl fasteners; provide flexible flashing tape o/ leg of flashing
- modify pedestals and tiles at perimeter to accommodate layout and wall geometry 10. turned-up wd cladding beyond
- adjust dim as req'd for full wood

cladding board as per ext elev.

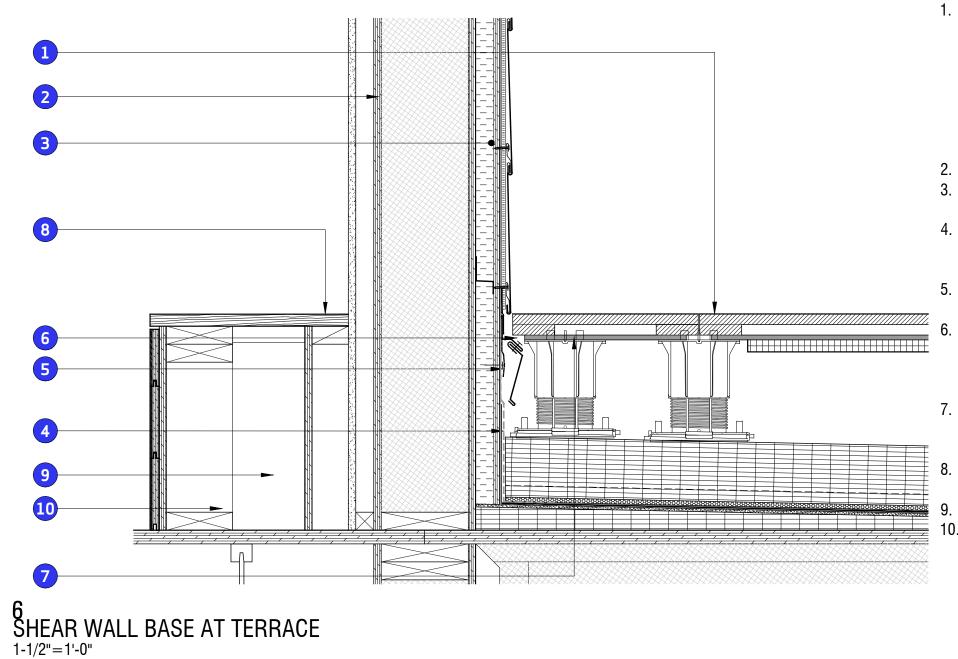
GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. **REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.**

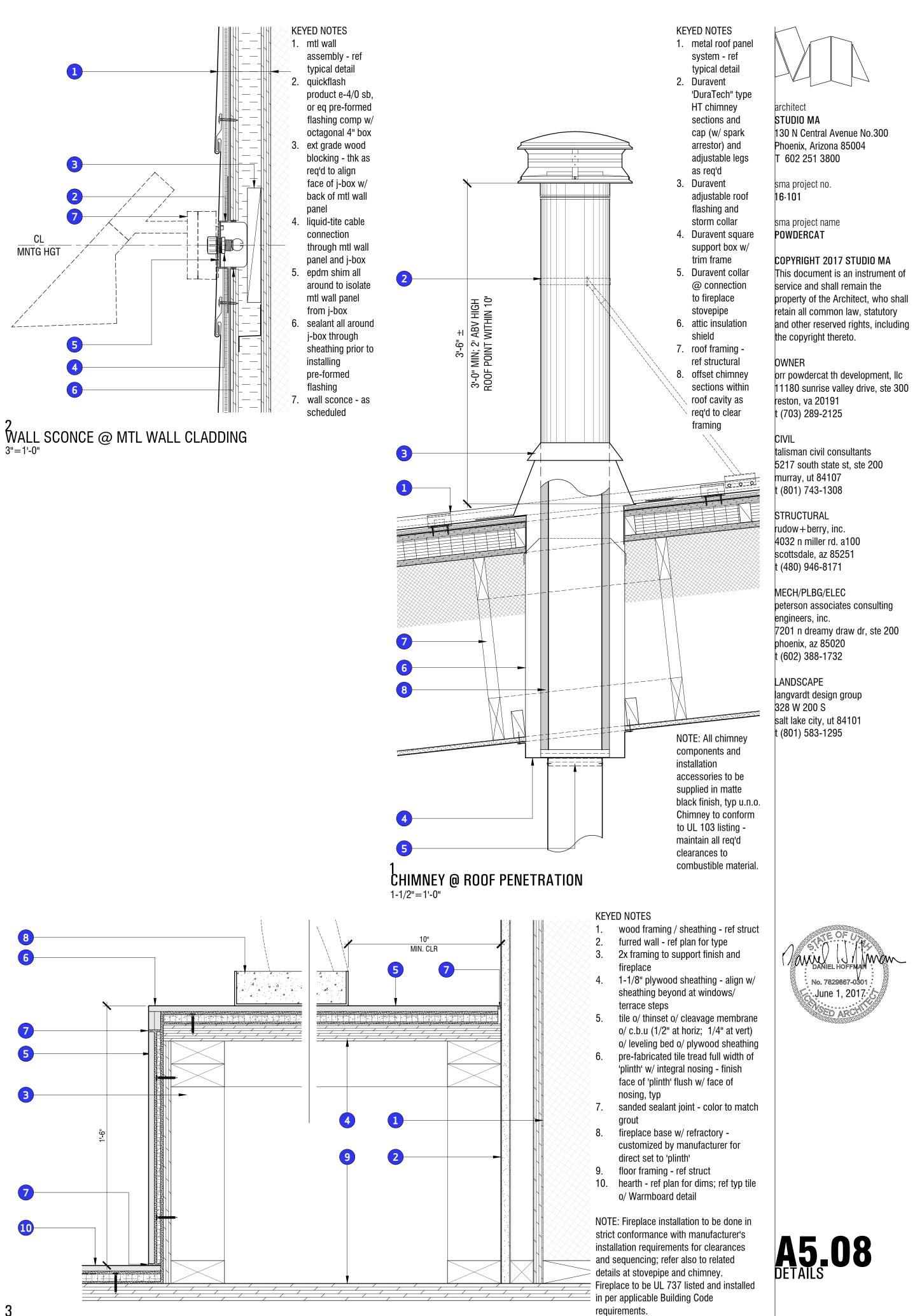
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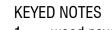


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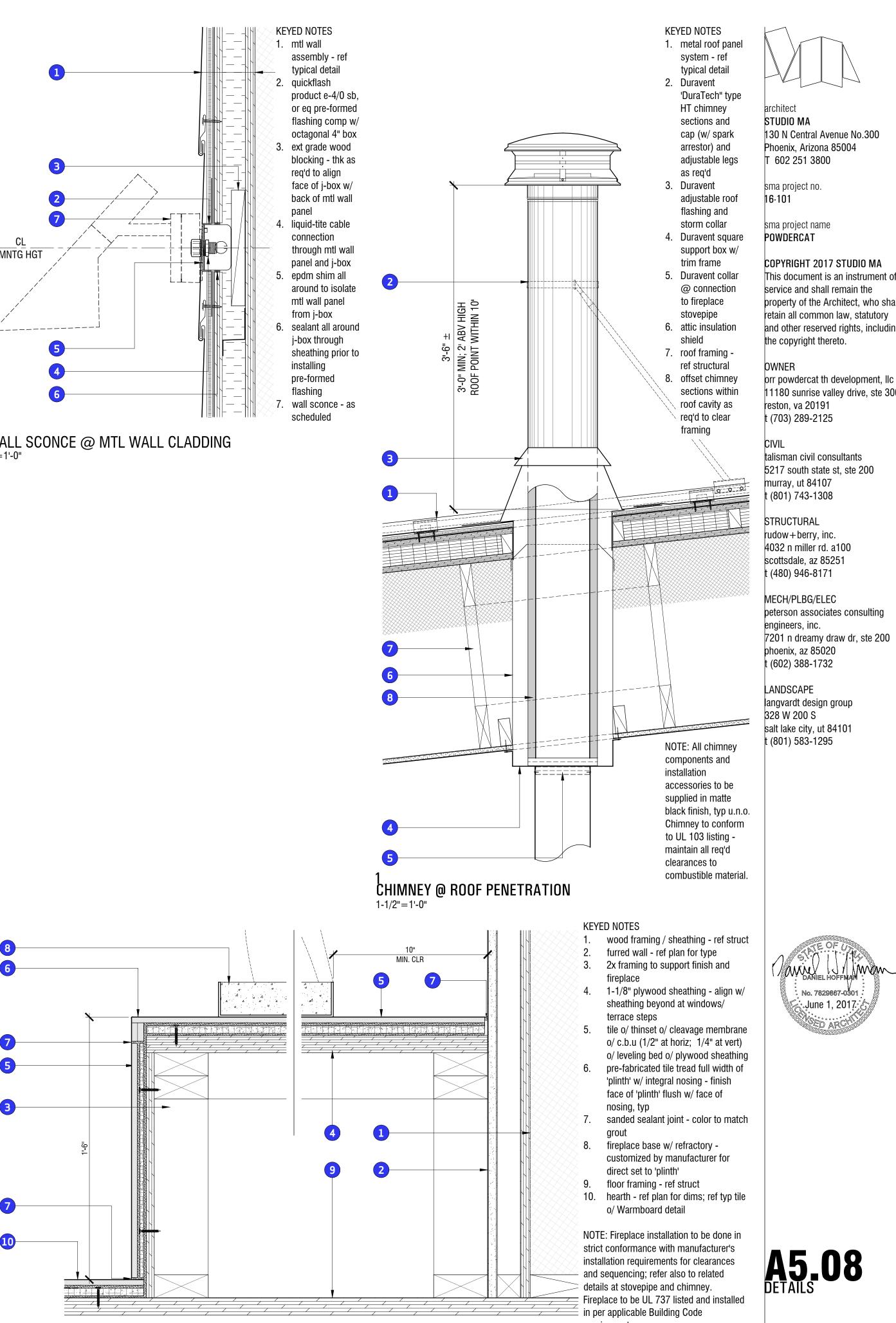
4







- 1. wood paver system: wood tiles o/ snow-melt o/ adjustable paver pedestals o/ rigid foam insulation o/ drainage mat o/ waterproof roofing membrane o/ 1/4" coverboard o/ sloped rigid foam insulation (1/4" per 12", typ) o/ plywood sheathing - ref struct 2. wood framing - ref struct
- 3. metal cladding assembly ref typical detail
- 4. waterproof roofing membrane lap up wall sheathing to min 4" above roofing high point
- 5. termination bar and flexible flashing tape
- two-piece stainless steel counterflashing and receptor w/ sstl fasteners; provide flexible flashing tape o/ leg of flashing
- 7. modify pedestals and tiles at perimeter to accommodate layout and wall geometry hardwood trim to align with step
- beyond
- wood framing at partial height wall wood flooring planks

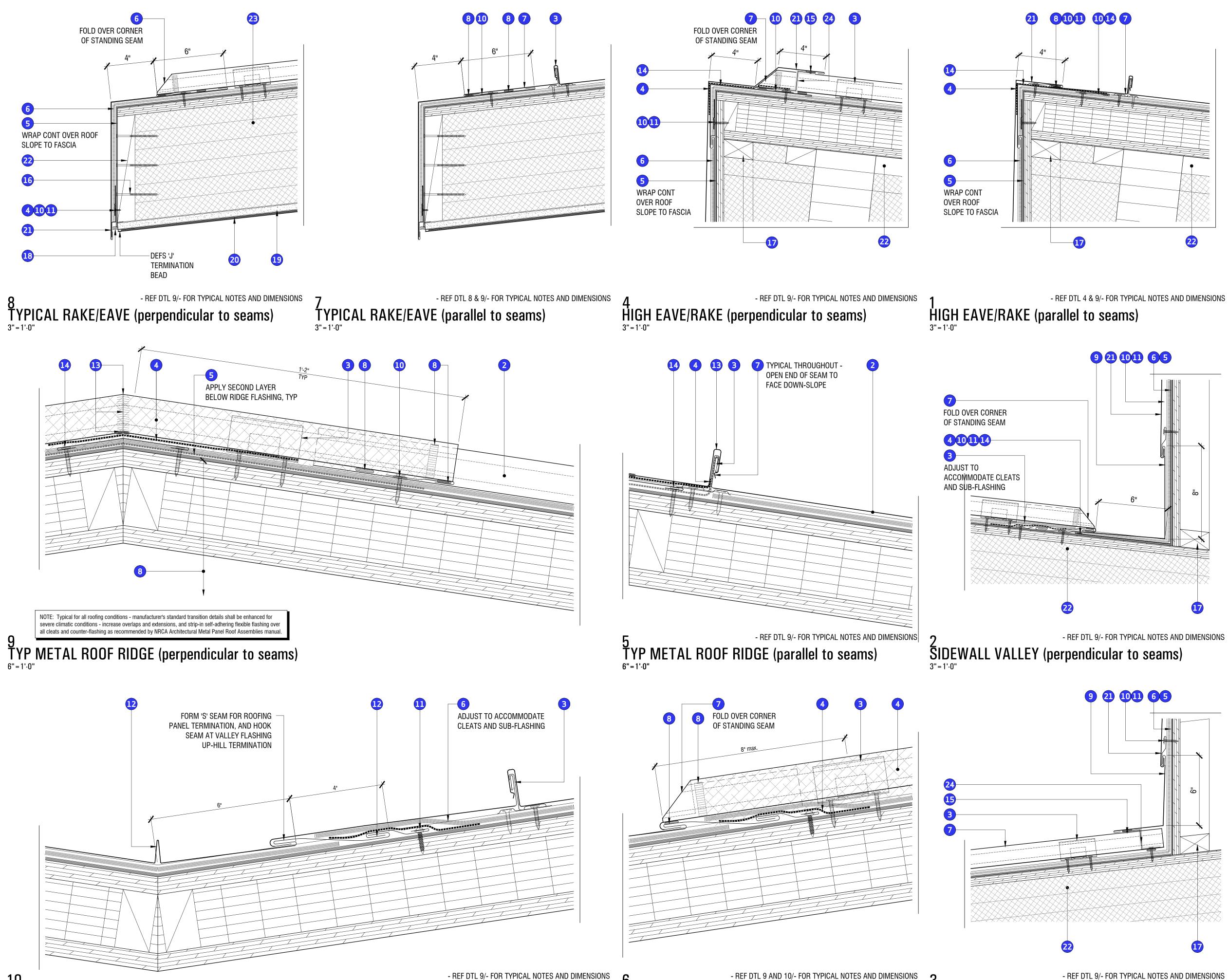


FIREPLACE PLINTH, HEARTH, AND REFRACTORY 3"=1'-0"

> GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. **REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.**

PERMIT SET phase / rev **2017.06.01** date

AS NOTED scale



TYP METAL ROOF VALLEY (parallel to seams) 6"=1'-0"

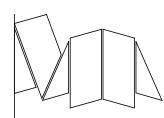
- REF DTL 9 AND 10/- FOR TYPICAL NOTES AND DIMENSIONS

- REF DTL 9/- FOR TYPICAL NOTES AND DIMENSIONS **TYP METAL ROOF VALLEY (perpendicular to seams)HIGH ROOF TO OVERHANG (parallel to seams)** $a^{"=1'\cdot0"}$

ROOFING DETAIL KEYNOTES

NOTE: Refer to specifications for additional detail and manufacturers; all products are to be installed in accordance with manufacturer's requirements, and in compliance with applicable industry guidelines including NRCA and SMACNA.

- i. General Note: Prior to installation, review layout and center seam between ridge and valley to minimize occurrence of a seam near ridges and valleys.
- **ROOF FRAMING ASSEMBLY:**
- 3/4" Exterior grade plywood (fire-treated, where required) o/
- Rigid insulation ref specifications; w/ 2x3 wood sleepers o/ • Plywood roof sheathing - ref structural dwgs o/
- Roof framing ref structural dwgs; w/ spray-applied polyurethane insulation - ref specifications.
- 2. METAL ROOFING ASSEMBLY:
 - Standing seam metal panel Breathable underlayment
 - Self-adhering rubberized waterproof membrane
- 3. Standing seam clip w/ sstl fasteners
- 4. Flexible self-adhering flashing tape compatible with waterproof membrane and all adjoining materials; width as req'd for lap shown Self-adhering rubberized waterproof membrane
- Breathable underlayment
- Standing seam metal panel
- Non-curing butyl sealant/tape
- Rakewall flashing 24ga min. to match metal roofing panel, typ. 10. Cleat - 20ga min. stainless steel w/ isolation membrane where adjoining dissimilar metals; provide joggles, hook seams, and hems
- as req'd. 11. Stainless steel fastener
- 12. Custom valley flashing to match metal roofing panel 13. Custom ridge flashing: fabricate from segments of standard metal roofing panel - tightly miter joints and fully solder all seams prior to
- installation 14. Stainless steel sub-flashing/counter flashing - form as req'd; fasten as indicated and install flexible flashing tape.
- 15. 'Zee' flashing form to match profile and finish of metal roofing panels; install w/ rivet connections and butyl tape along full length of flashing, typ
- 16. Ringshank nails ref structural
- 17. Wood framing/sleepers
- 18. Backer rod and tooled sealant joint
- 19. Exterior-grade fiberglass mat-faced gypsum board 20. Direct-applied exterior finish system (DEFS); provide all req'd trim 21. Brake-formed metal flashing - profile as indicated; form w/
- termination seams and hemmed drip edge
- 22. Wood framing ref structural dwgs
- 23. Continuous insulation to fill framing cavity
- 24. Continuous bead of sealant, beyond.



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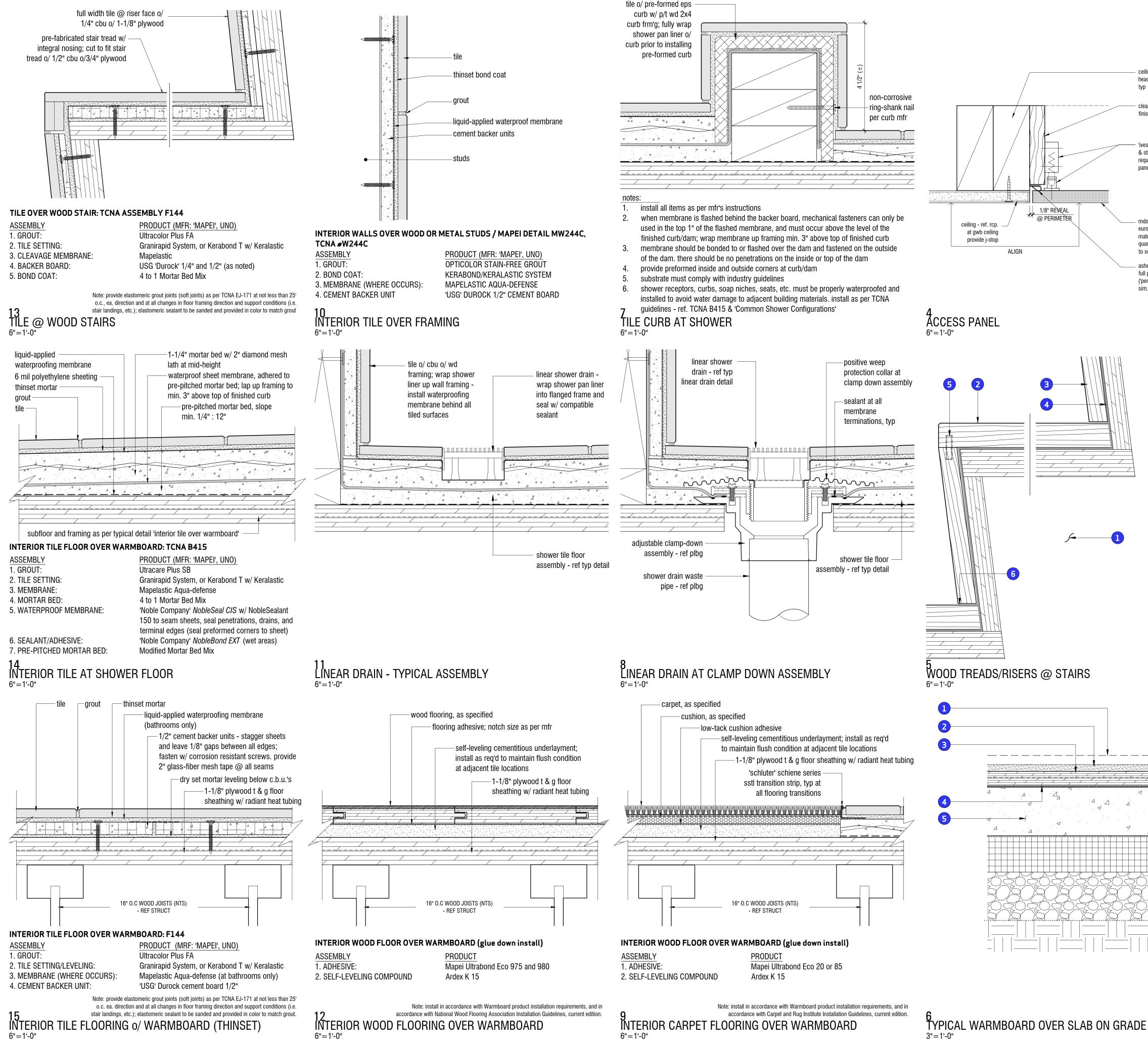
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AS NOTED



ÍYPICAL WARMBOARD OVER SLAB ON GRADE SECTION

ceiling fram'g w/cont. double headers & blocking @ open'g,

clear hardwood trim w/ painted finish at perimeter of opening

'ives' invisible latch cl12 body & strike. provide multiple as required based on weight of panel

mdo access panel on european hinges w/ finish to match ceiling. provide quantity of hinges as required to support weight of panel.

ashesive silicone gasketing @ full perimeter of opening ('pemko' hss2000xs88bl, or sim.)

risers

tread

riser

6 mil

struct; o/ 15

mil vapor

barrier o/ 3"

insulation o/

compacted

aggregate

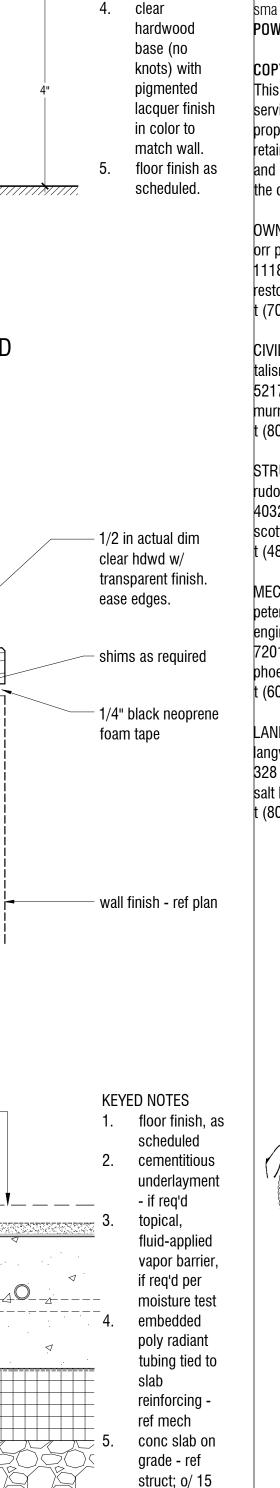
base course

o/ subgrade

rigid foam

WALL BASE @ GYPSUM WALL BOARD 6"=1'-0" **KEYED NOTES** 1. LVL stair stringer w/ 1-1/8" plywood treads and 3/4" plywood 2. 5/4" hardwood tread to match wood flooring; provide 1/8" radius eased edge @ nosing continuous full length/width of 3. 3/4" hardwood to match wood flooring @ riser · continuous full length/height of polyurethane adhesive, typical 5. dowels, spline, or other mechanical fasteners 6. open joint @ riser to tread + 1/32" to -1/16", typical WOOD WALL CAP 6"=1'-0" **KEYED NOTES** 1. floor finish, as scheduled cementitious underlayment - if req'd _____ 1-1/8" t & g ******* plywood sheathing w/ integral grooves for poly tubing radiant heating · A polyethylene vapor barrier conc slab on grade - ref

FLOOR FINISH OVER RADIANT SLAB ON GRADE 3"=1'-0"



KEYED NOTES

1. wall - ref

plan

gypsum wall

board w/

at bottom.

painted.

back bevel

cope to

manufactured

tapered edge

level 4 finish,

bottom edge

of base and

flooring, typ

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AS NOTED

mil vapor

barrier o/ 3"

rigid foam

insulation o/

compacted

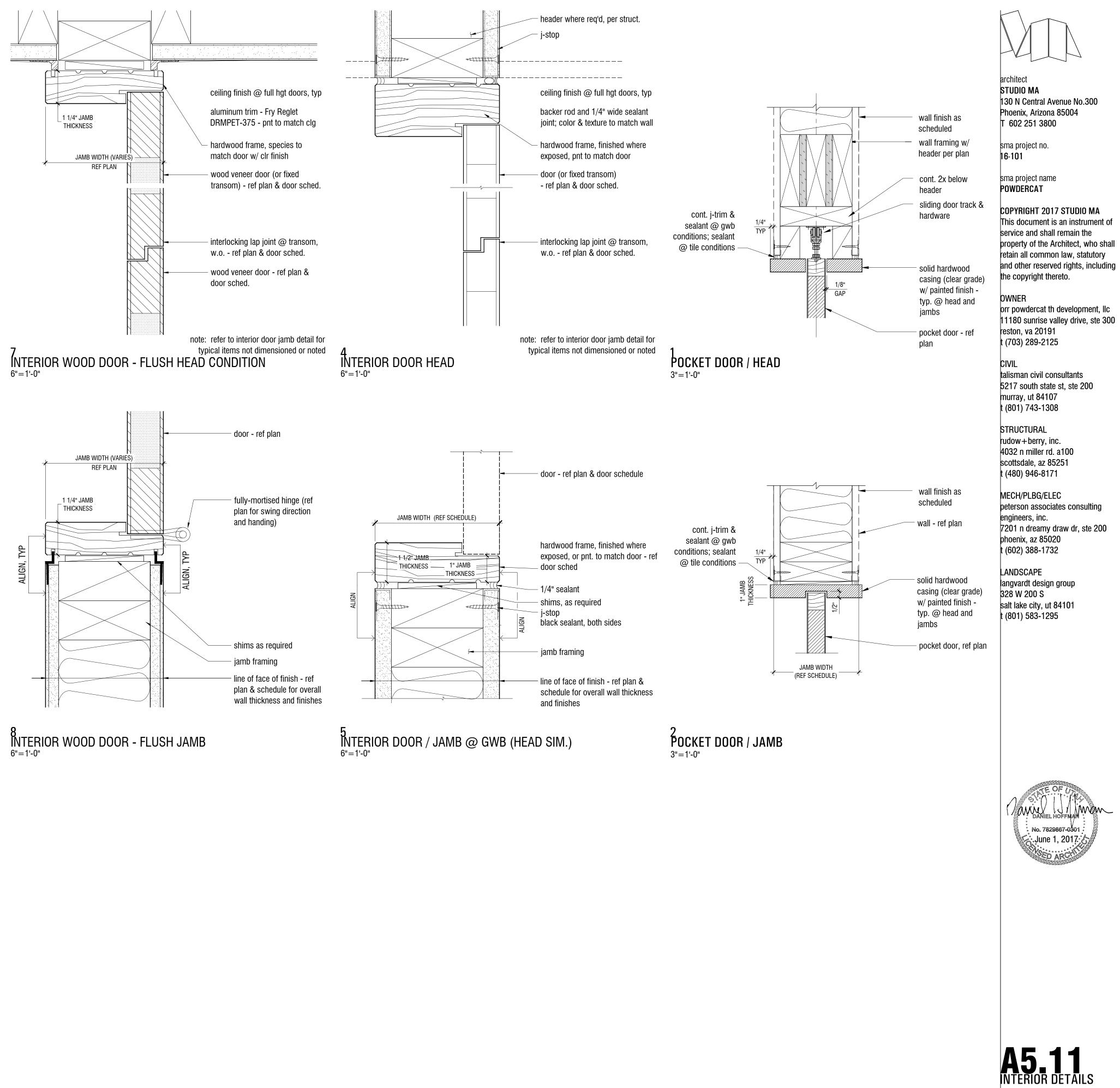
base course

o/ subgrade

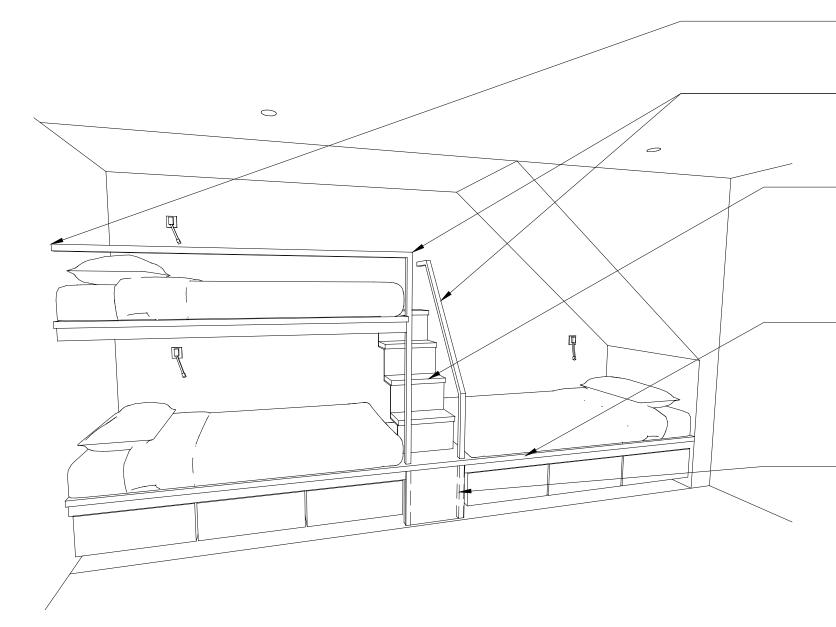
slab control joint - ref

struct

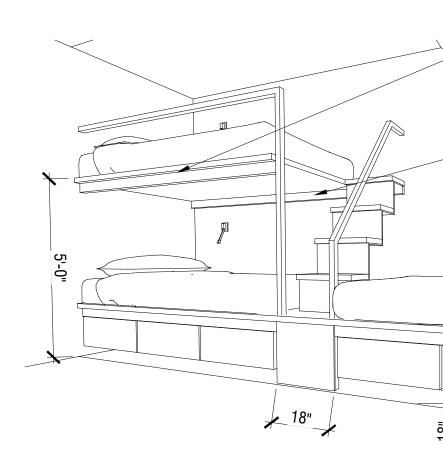
aggregate



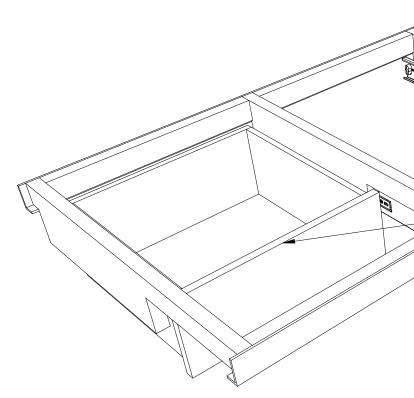
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TYPICAL LOT BUNK MILLWORK - VIEW 1 NTS



TYPICAL LOT BUNK MILLWORK - VIEW 2



BUNK MILLWORK - PLATFORM BASE FRAMING @ STORAGE

-provide solid blocking in wall w/ concealed stl angle extension into open end of hss; affix hss w/ cntrsnk sds into angle, typ @ sim conditions

-tube steel framing - nominal 2x2x3/16 hss, typical; miter all joints, fully weld, fill and grind smooth to AESS standards. prime and paint all componentscolor to be selected by architect

-hardwood treads 1-1/2" thk x 18"w x (\pm) 8"d. species to match wood floor; ease all edges. affix to folded stl plate 3/8"thk w/ profile to include 1" nosing. provide bolted connection to stl support at top and concealed fastening to platform at bottom. paint stl plate to match stl framing

-1-1/8"thk veneer plywood (species to match wood flooring) w/ 1-1/2"thk solid hardwood edge banding at outer face to match veneer. affix to frame from below - see detail 3/-

-ptd stl plate welded o/ extension of stl framing below platform

NOTE: Bunk millwork at lots 124 and 133 is similar; ref floor plans for unique conditions. Bunks in lots 124 and 133 are stacked 2-high, unless noted otherwise

-steel angle framing - nominal 2x2x3/16, typical; miter all joints, fully weld, fill and grind smooth to AESS standards. provide concealed connection @ wall, typical. prime and paint all components- color to be selected by architect

-support platform w/ 2x wood nailers on stl angles; fasten platform to framing from below; ensure all wood nailers are paint grade, free of wanes/checks/ knots/ and other defects, and paint to match stl framing, typical

-wall sconce light fixture - ref elec and architectural reflected ceiling plan; see interior elevations for mounting height, typ

–platform framing spans full length of space; align outer face of platform w/ face of wall/guardrail

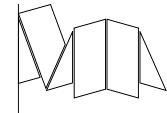
-paint-grade hardwood drawer fronts (color to match stl framing) o/ hardwood drawer box w/ dovetailed corners and 3/8"thk (min.) MDO plywood bottom in rabbeted slot in drawer sides, typ as shown; provide w/ heavy-duty full extension drawer guides

-steel angle framing - nominal 2x2x3/16, typical; affix to wall w/ lag bolts to solid backing in wall framing @ 16" o.c.

-2x wood nailers on stl angles; span drawer supports (nominal 2x8) between angles; provide three (3) equal spaces per bunk

heavy-duty drawer guides equivalent to Hettich KA 3320 x 28" length full extension ball bearing slide w/ 3/4" installation width, load capacity 300-500lbs. provide in mfr's optional black powder coated finish

–install guides at back of platform to allow drawers to be pushed past face of platform for luggage storage below; provide means to align drawer front at face of platform and pull/push past



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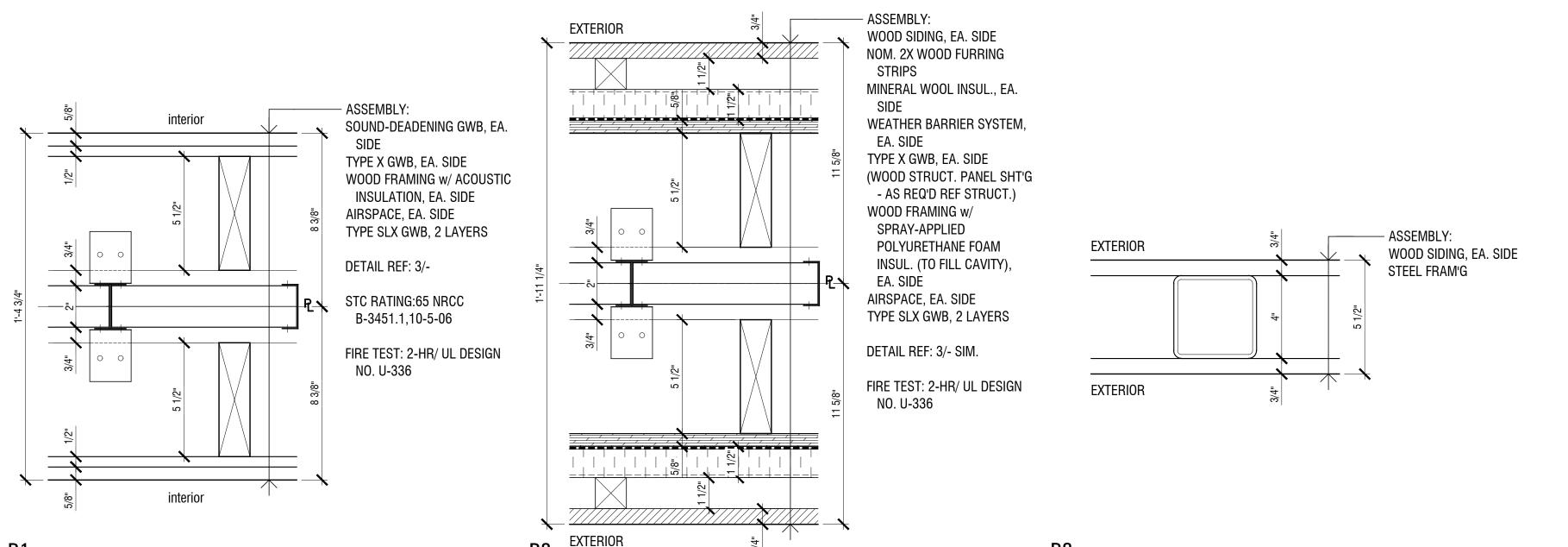
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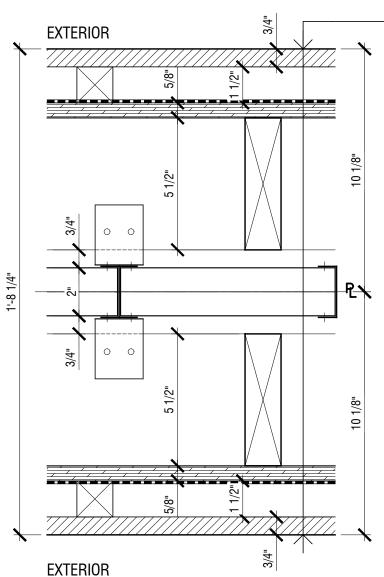


AS NOTED scale



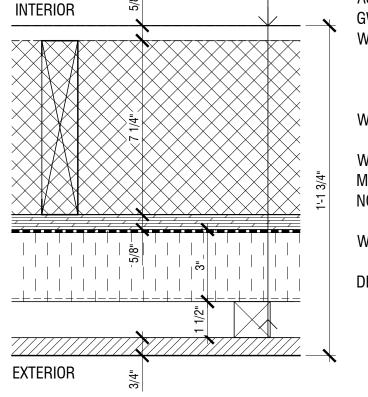




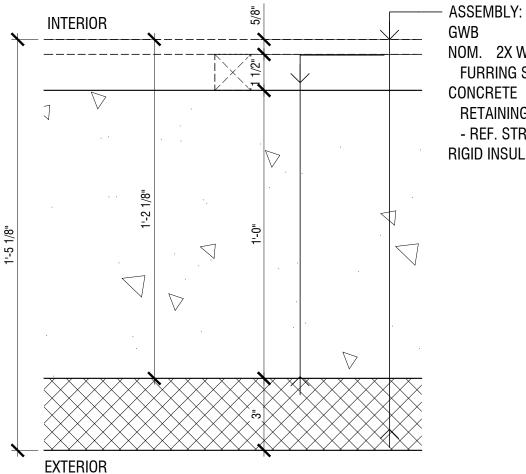


D2 WALL TYPE w/o MINERAL WOOL INSUL., EA. SIDE DETAIL REF: 3/- SIM. FIRE TEST: 2-HR/ UL DESIGN NO. U-336

ASSEMBLY:

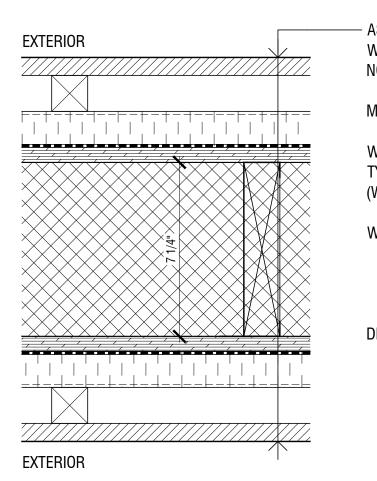


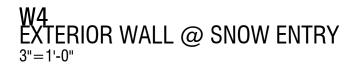




NOM. 2X WOOD FURRING STRIPS CONCRETE **RETAINING WALL** - REF. STRUCT. RIGID INSUL.



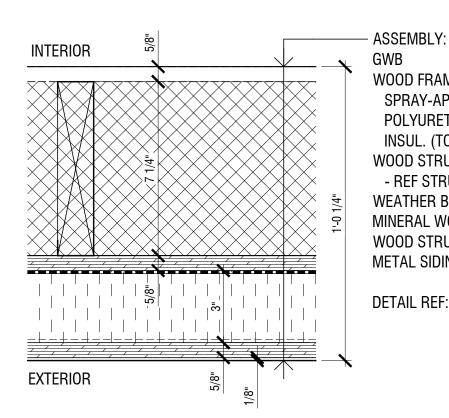






ASSEMBLY: GWB WOOD FRAMING w/ SPRAY-APPLIED POLYURETHANE FOAM INSUL. (TO FILL CAVITY) WOOD STRUCT. PANEL SHT'G - REF STRUCT. WEATHER BARRIER MINERAL WOOL INSUL. NOM. 2X WOOD FURRING STRIPS WOOD SIDING

DETAIL REF: 1/-



TYPICAL TERRACE SCREEN WALL

3"=1'-0"

GWB WOOD FRAMING w/ SPRAY-APPLIED POLYURETHANE FOAM INSUL. (TO FILL CAVITY) WOOD STRUCT. PANEL SHT'G - REF STRUCT. WEATHER BARRIER MINERAL WOOL INSUL. WOOD STRUCT. PANEL SHT'G METAL SIDING

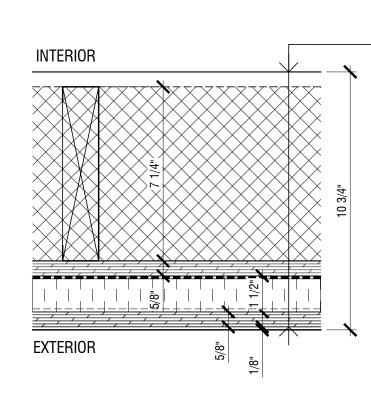
DETAIL REF: 2/-



ASSEMBLY: WOOD SIDING, EA. SIDE NOM. 2X WOOD FURRING STRIPS, EA. SIDE MINERAL WOOL INSUL., EA. SIDE WEATHER BARRIER, EA. SIDE TYPE X GWB, EA. SIDE (WOOD STRUCT. PANEL SHT'G - AS REQ'D REF STRUCT.) WOOD FRAMING w/

SPRAY-APPLIED POLYURETHANE FOAM INSUL. (TO FILL CAVITY)

DETAIL REF: 1/- SIM.



ASSEMBLY: W2 WALL TYPE w/ 1.5" MINERAL WOOL INSUL PROVIDE SHEATHING W.O. AS REQ'D PER STRUCT DWGS

DETAIL REF: 2/A6.02

COMMENTS

- A. Refer to code analysis for wall fire rating and separation requirements.
- B. Refer to code analysis for wall thermal envelope requirements.

GENERAL NOTES

- 1. UL / IBC design note: Refer to framing details, project specifications, and code analysis for detailed UL firestopping and fire resistant assembly design details
- 2. All walls w/tile shall have 20 ga studs min. u.n.o.
- 3. All gwb at walls w/tile or at walls w/plbg fixtures shall be glass fiber mat faced gwb and shall maintain required fire rating, where applicable.
- 4. Provide sound attenuation batts (bearing UL rating at rated walls) at all rated walls, walls separating units from each other or from public/service areas, and at all bathroom walls - typ, uno.

Refer to General Notes for Acoustically Rated Walls for detailed information including requirements for installation of resilient channels, caulking, electrical outlets, and penetrations.

- 5. Contractor shall coordinate wall layout to ensure face of substrate alignment where different wall types are shown as co-planar.
- 6. Provide backing at all wall mounted fixtures, accessibility elements, millwork, equipment, and accessories for current and future (ie - adaptable) installations. where required by accessibility codes such backing must provide the structural strength as required by ADAAG.

FRAMING NOTES

- 1. Refer to floor plans for wall tags, typ. Where no wall type is indicated it shall be similar to the adjacent wall type.
- 2. Refer to framing details for typical framing requirements and dimensions. All framing shall conform to framing details unless otherwise noted.
- 3. Refer to structural drawings for load bearing stud framing requirements. intersections between load bearing framing and non-structural framed partitions shall be flush and shall remain true, plumb, and level. required ratings to be maintained.
- 4. All recessed wall mounted equipment shall be framed with double studs at jambs per framing details, typical, u.n.o.
- 5. Contractor shall notify Architect prior to installing wall finish to review backing locations, typical throughout.
- 6. All duct openings shall be framed per sill framing requirements refer to typical partition elevation and interior framing schedule.

WALL TYPE LEGEND

REF

SAFB

SHT'G

TYP

UNO, U.N.O.

WO, W.O.

| WALL TYPE LEGEND | |
|------------------|--------------------------|
| А | rated partition |
| В | full-height partition |
| D | demising wall |
| F | furred wall |
| S | shear wall |
| W | exterior wall |
| ABBREVIATIONS | |
| 1s | one side |
| 2s | two sides |
| CBU | cementitious backer unit |
| CL | centerline |
| CLG | ceiling |
| DIA | diameter |
| (E), (e) | existing |
| EXT | exterior |
| FT, F-T | fire-treated |
| GA | gauge |
| GWB, GYP BD | gypsum wall board |
| NC, N-C | non-combustible |
| NR | non-rated |
| OC, O.C. | on center |
| 0/, 0/ | over |
| PTD | painted |
| | |

| painteu |
|-----------------------------|
| refer, reference |
| sound attenuation fire blar |
| sheathing |
| typical |
| unless noted otherwise |
| where occurs |



nket

GENERAL NOTES FOR ACOUSTICALLY RATED WALLS

ELECTRICAL OUTLET/RECEPTACLE IN DRYWALL

In a single stud wall, there shall be a separation of 24" between centerlines of outlet boxes or receptacles set into opposite sides of the wall. When these boxes are of dimensions exceeding 4" wide, this dimension (24") shall be clear between the side walls, providing a full 24" separation regardless of the box size. Conduit connecting such boxes shall be flexible and shall provide 6" slack per 24" of run.

In a double stud wall, boxes in opposite sides of the wall shall be located 24" on center, minimum. Effectively, this means that boxes on the same side of the wall will be 48" apart if there is a box between them on the other side of the wall. Conduit, in the case of a double wall, shall home run to a point outside of the partition before connecting to cable and conduit connecting boxes on the other side. Conduit, which shall be flexible, may thread through the studs on its own side but shall under no circumstances interface with the stud on the other side of the wall.

The boxes shall be treated to reduce sound transmission. All unused knock-out holes shall be plugged with knock-out caps. The openings or cutouts in the walls to receive the boxes/receptacles shall be made no more than 1/4" oversize to allow a 1/8" gap all around. The flanges shall be perimeter sealed with acoustical caulking, prior to the boxes/receptacles being inserted.

An outlet box pad, which acts to increase mass and provide damping, shall be applied to the backs of boxes or where the box is installed in a partition rated with an STC>49. Where the box is installed in a partition rated at STC>56, the boxes/receptacles shall be boxed in from the rear on all five sides with two layers of gypsum board.

PENETRATIONS OF DRYWALL CONSTRUCTIONS:

The Contractor shall ensure that the sound control performance of structures be maintained in accordance with the drawings and specifications. All penetrations shall be installed in a manner that results in complete air tightness through structure. If a condition occurs where penetration of the structure by a duct, pipe, conduit, etc., is not shown clearly on the drawings (or described in the specifications), the Contractor shall ask immediately for clarification of the method necessary to install the particular item.

The following shall apply to all penetrations in walls requiring a sound transmission class (STC) 49 or greater. For penetrations of ducts, pipes, conduit, etc., with minimum dimension or diameter exceeding 3", the gypsum board layers shall be framed around the penetration allowing for a 1" annular gap. The length of the duct or pipe or conduit that penetrates the construction shall be wrapped with 1" thick, 3 lb/ft3 density glass or mineral fiber. This shall be held in place at either end by a 1-1/4" diameter or 1-1/4" square polyethylene or neoprene closed cell sponge backing rod. A total of 4 beads of acoustical caulking (2 at each end) shall be applied continuously around the penetration as shown in the drawings.

When more than one duct (etc.) passes through the construction, or when the duct (etc.) penetration is close to another wall, ceiling or floor construction, a minimum distance of 5" shall separate the duct wall from the adjacent duct wall or 4" between the duct wall and the adjacent wall/floor/ceiling. This shall be to allow the insertion of two back-to-back framing runners to ensure the strength and the acoustical packing of the gypsum board construction separating the two items.

For penetrations of pipes, conduit, etc., with maximum dimension or diameter less than 3", the hole in the wall need not be framed out. Pipes/conduits sized in the range 1" to 3" diameter shall be packed with glass or mineral fiber, held in place with backing rod and caulked as indicated above for larger size penetrations.

Pipes/conduits with diameters up to 1" may be fitted with 1-1/2" wide x 3/4" thick (compressed to 1/2") closed cell, sponge neoprene collars as they penetrate each side of the wall (refer to fireproofing details sheet a0.15 for rated conditions).

The following pipe penetration systems are acceptable, subject to the above:

Split Acoustical Wall Seals SWS, and Spool-Type Acoustical Pipe Seals SPS, from Mason Industries, Inc., Hauppage, NY, and Anaheim, CA, or approved equal.

ELECTRICAL OUTLET BOX PAD:

Electrical Outlet Box Pads shall be applied where called out on the drawings or specifications. Its function is to seal box openings, increase mass and provide damping to reduce air-transmitted sound through party walls. It shall consist of polybutene-butyl and inert fillers. Material shall provide good adhesion to metal and plastic. Pads shall be applied to the backs of installed electrical boxes, molded to box and folded around conduit cable entering the box. Pads shall not be used in areas subject to temperatures above 200° F.

The following are acceptable, subject to the above:

> Lowry's Outlet Box Pads from Harry A. Lowry & Associates, Inc., Sun Valley, CA, 800-225-8231. SpecSeal Firestop Putty Pads (fire-rated) from Specified Technologies, Inc., Somerville, NJ, 800-992-1180, or approved equal.

ACOUSTICAL CAULKING:

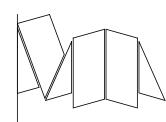
Acoustical caulking shall be applied in continuous beads. The material shall be resilient and non-setting.

The following are acceptable:

Acoustical Sealant, U.S. Gypsum, Chicago, IL

Acoustical Sealant, The Tremco Manufacturing Company, Cleveland, OH AS-10 Acoustical Sealant, Macco Adhesives, Wickliffe, OH

BA-97, BA-98 Acoustical Sealant, Pecora Chemical Corp., Harleysville, PA #313 Sound Control Sealant, The W.W. Henry Company, Huntington Park, CA, or approved equal.



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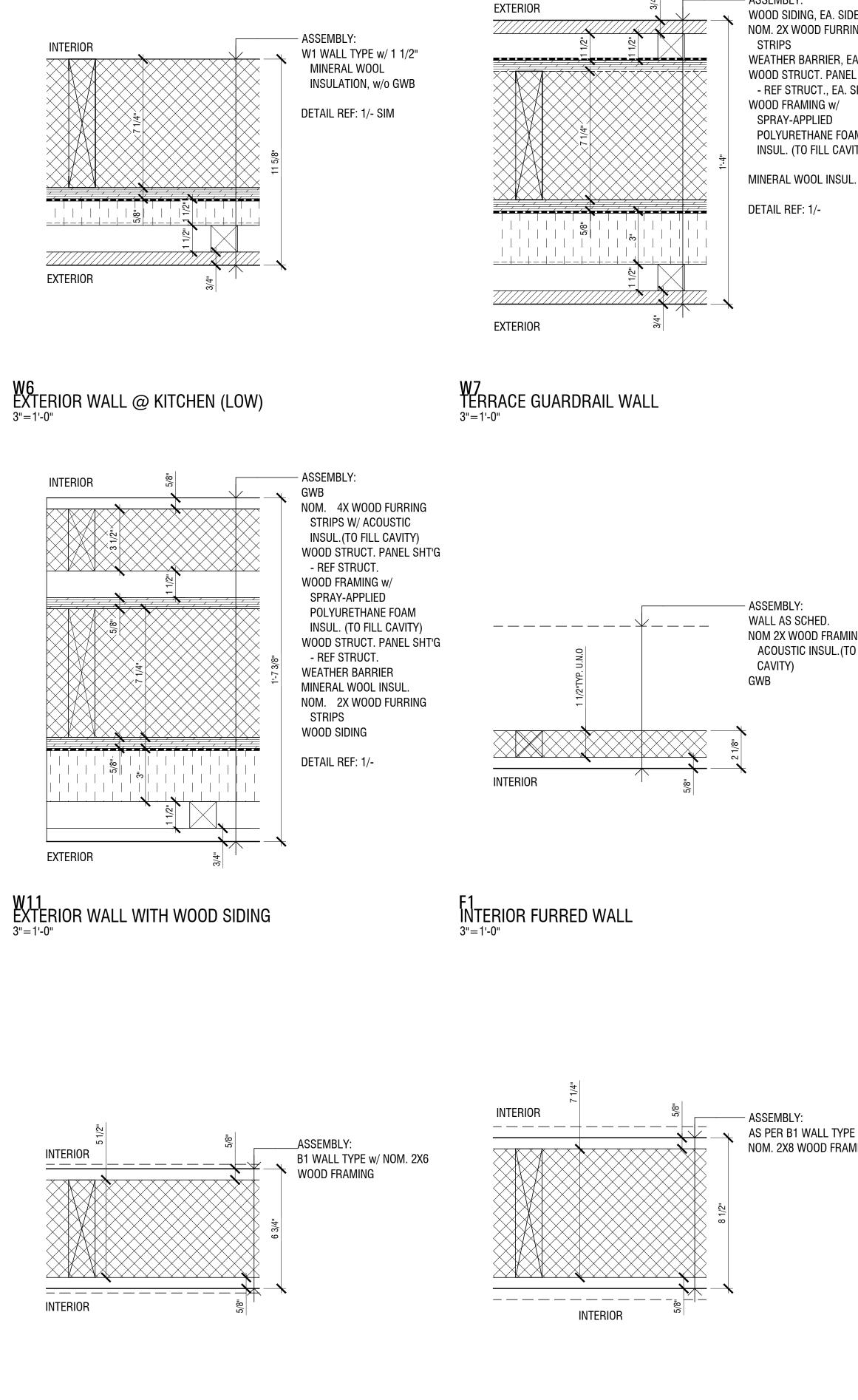
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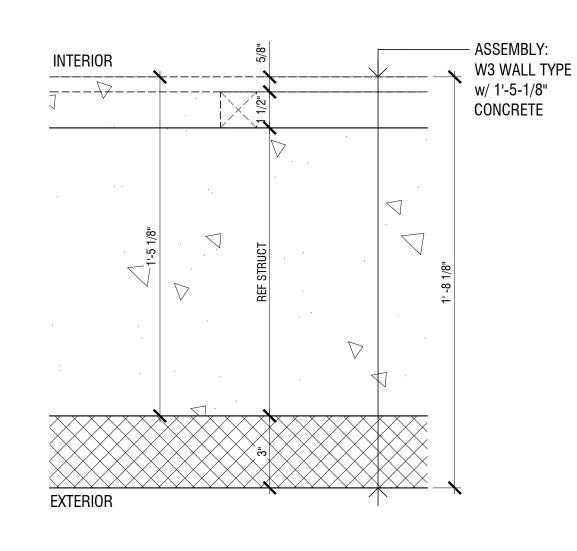
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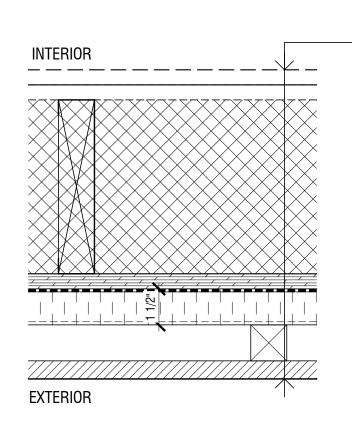


B2 TYPICAL INTERIOR WALL 3"=1'-0"

B3 INTERIOR WALL ^{3"=1'-0"}

ASSEMBLY: WOOD SIDING, EA. SIDE NOM. 2X WOOD FURRING STRIPS WEATHER BARRIER, EA. SIDE WOOD STRUCT. PANEL SHT'G - REF STRUCT., EA. SIDE WOOD FRAMING w/ SPRAY-APPLIED POLYURETHANE FOAM INSUL. (TO FILL CAVITY)





- ASSEMBLY:

WALL FINISH AS SCHED.

W1 WALL TYPE w/ 1 1/2"

MINERAL WOOL INSUL.

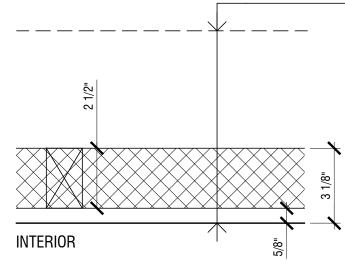
DETAIL REF: 1/- SIM

INTERIOR

18" CONCRETE RETAINING WALL w/ FURRED GWB 3"=1'-0"



ASSEMBLY: WALL AS SCHED. NOM 2X WOOD FRAMING W/ ACOUSTIC INSUL. (TO FILL CAVITY)

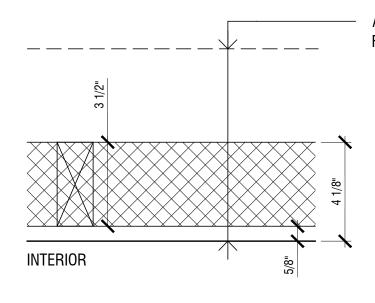




WOOD FRAMING

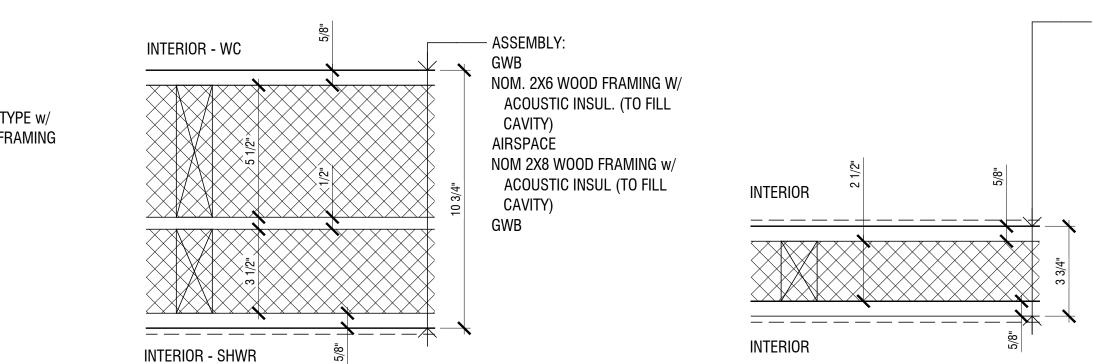
F1 WALL TYPE w/ NOM. 2X3

- ASSEMBLY:





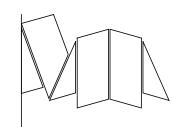




ASSEMBLY: AS PER B1 WALL TYPE w/ NOM. 2X8 WOOD FRAMING



B5 TYPICAL INTERIOR WALL 3"=1'-0"



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- ASSEMBLY:

WOOD FRAMING w/

SPRAY-APPLIED

POLYURETHANE FOAM

NOM. 2X WOOD FURRING

INSUL. (TO FILL CAVITY)

FIBERGLASS-MAT FACED GWB

STRIPS w/ MINERAL WOOL

FIBERGLASS MAT-FACED GWB

INSUL. (TO FILL CAVITY)

GWB

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AS NOTED scale

PERMIT SET phase / rev **2017.06.01** date

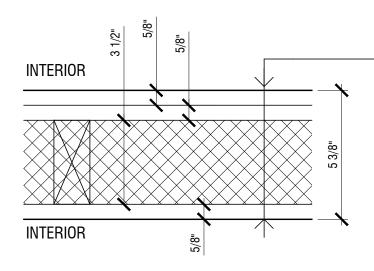
WEATHER BARRIER DIRECT APPLIED EIFS ____ EXTERIOR 1/2" . 80 W10 EXTERIOR WALL WITH DIRECT-APPLIED EIFS 3"=1'-0" - ASSEMBLY: GWB NOM. 2X4 WOOD FRAMING W/ ACOUSTIC INSUL. (TO FILL CAVITY) ASSEMBLY: GWB F1 WALL TYPE w/ NOM. 2X4 WOOD FRAMING APPLY ADDITIONAL LAYERS OF GWB AND/OR WOOD SHTG AS INTERIOR REQ'D TO MAINTAIN FLUSH CONDITIONS w/ ADJ. STRUCTURAL WALLS, TYP. INTERIOR N B1 TYPICAL INTERIOR WALL 3"=1'-0" – ASSEMBLY: GYB - ASSEMBLY: VENEER PLYWOOD Nom. 2x3 wood framing NOM. 2X4 WOOD FRAMING W/ACOUSTIC INSUL. (TO W/ ACOUSTIC INSUL. (TO FILL CAVITY) FILL CAVITY) GYB VENEER PLYWOOD APPLY ADDITIONAL LAYERS APPLY ADDITIONAL LAYERS OF GWB AND/OR WOOD OF GWB AND/OR WOOD INTERIOR SHT'G AS REQ'D TO MAINTAIN FLUSH CONDITIONS w/ ADJ. STRUCTURAL WALLS, TYP. SHT'G AS REQ'D TO MAINTAIN FLUSH CONDITIONS w/ ADJ. STRUCTURAL WALLS, TYP.

AT WALLS WITH TILE PROVIDE CBU OF EQUAL THICKNESS TO GYB

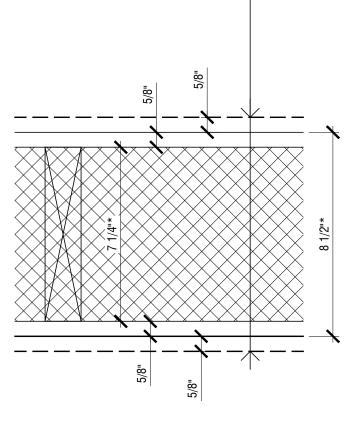


_ __ __

INTERIOR

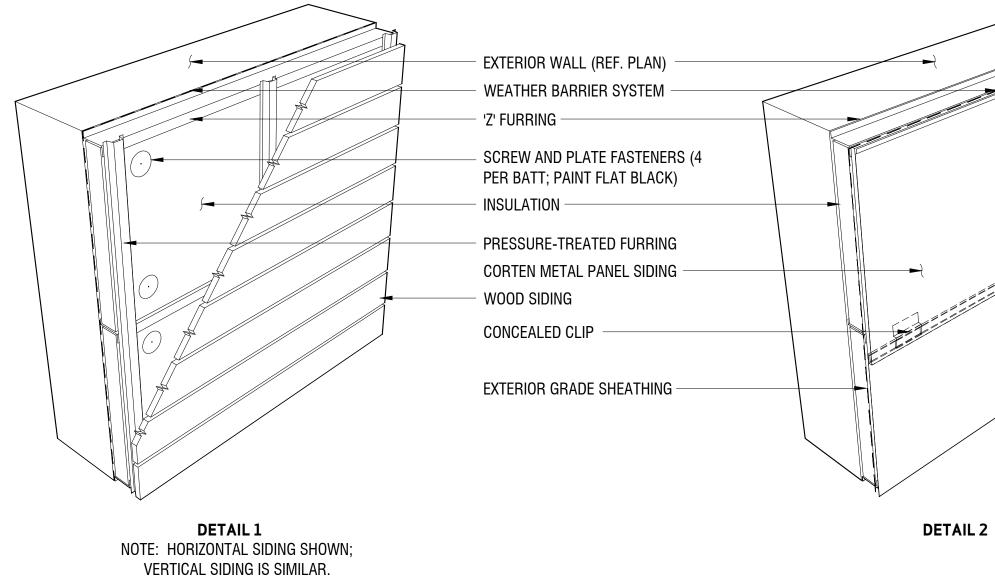


ASSEMBLY: GWB, 2 LAYER NOM 2X4 WOOD Framing W/ ACOUSTIC INSUL. (TO FILL CAVITY) GWB *ACOUSTIC*

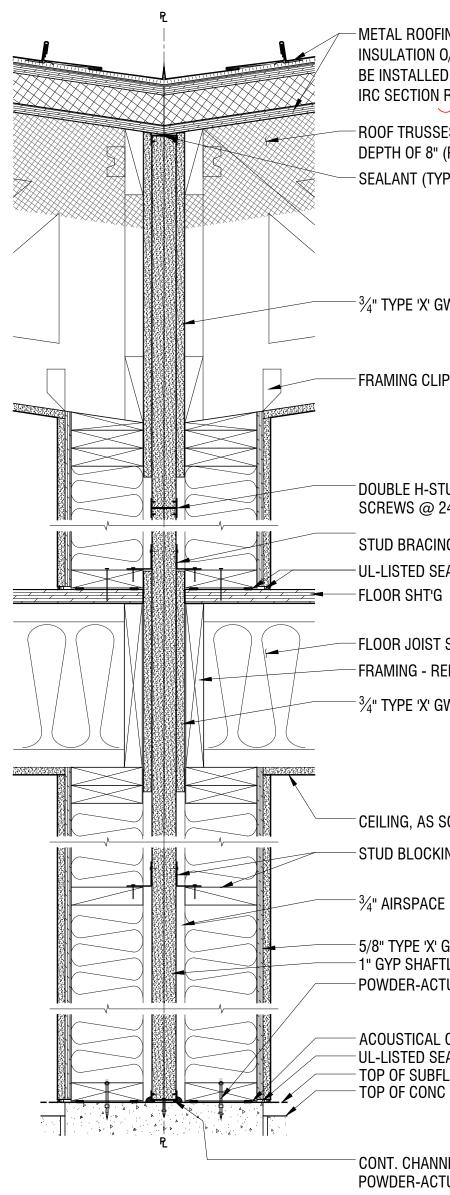








- ASSEMBLY: (GWB @ INTERIOR WALLS) WOOD STRUCT. PANEL SHT'G - REF STRUCT. WOOD FRAMING *REF. STRUCT. w/ ACOUSTIC INSUL. (TO FILL CAVITY) @ INTERIOR, SPRAY-APPLIED POLYURETHANE FOAM INSUL. (TO FILL CAVITY) @ EXTERIOR (GWB @ INTERIOR WALLS)



DETAIL 3

- METAL ROOFING O/ UNDERLAYMENT O/ WOOD SHEATHING O/ RIGID PLASTIC FOAM INSULATION O/ STRUCTURAL WOOD ROOF SHEATHING (FIRE-TREATED SHEATHING TO BE INSTALLED FOUR (4) FEET ON EACH SIDE OF WALL(s) AS PER EXCEPTION TO 2015 IRC SECTION R302.2.2) ~~~/

- ROOF TRUSSES W/CLOSED-CELL SPRAY POLYURETHANE FOAM INSULATION TO DEPTH OF 8" (R-6.3 / INCH) - SEALANT (TYPE AS)

 $-\frac{3}{4}$ " Type 'X' gwb fireblocking @ Roof framing

- FRAMING CLIP - REF STRUCT

DOUBLE H-STUD TRACK, SCREWED BACK TO BACK W/ ¾"L TYPE S PAN HEAD SCREWS @ 24" 0.C.

STUD BRACING W/ATTACHMENT CLIPS (REF. ITEMS A, B & C FOR SPACING REQ'S) - UL-LISTED SEALANT (TYPE AS)

- FLOOR JOIST SPACE FILLED W/FIBERGLASS BATT INSUL

- FRAMING - REF STRUCT

 $^{-3}_{4}$ " Type 'X' GWB Fireblocking @ EA. Floor Level

CEILING, AS SCHEDULED (5/8" GWB W/PTD FINISH, UNO) - STUD BLOCKING W/ATTACHMENT CLIPS (REF. ITEMS A, B & C FOR SPACING REQ'S)

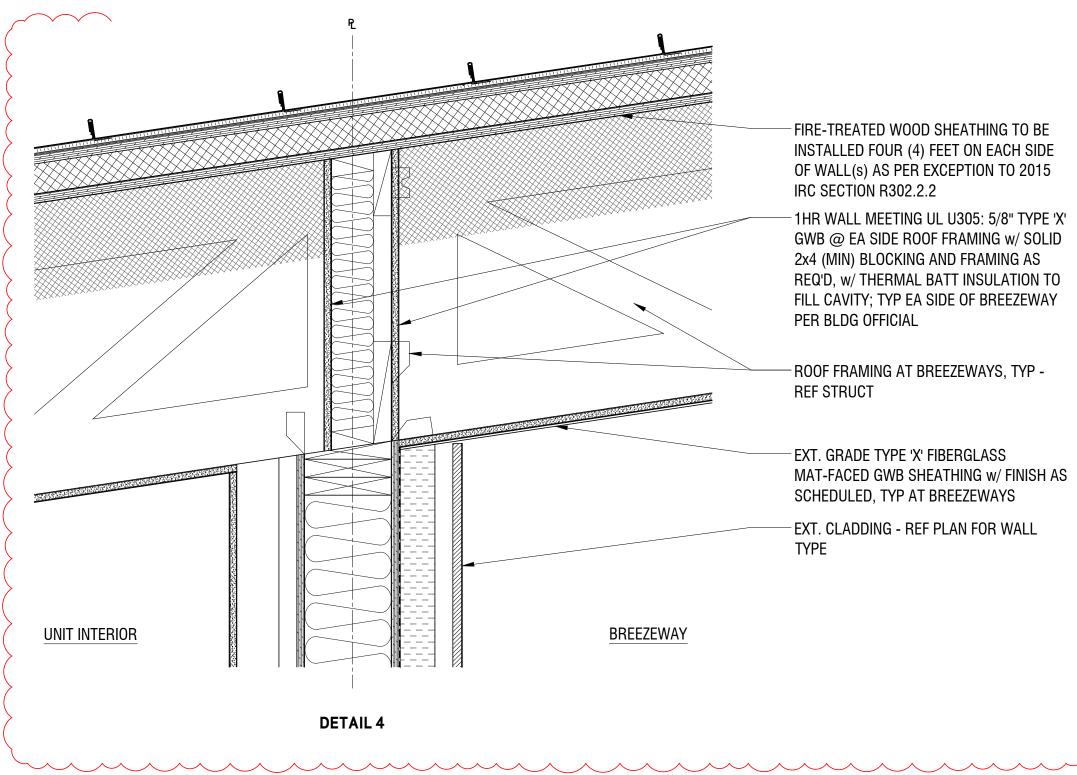
⁻³⁄₄" AIRSPACE

- 5/8" TYPE 'X' GWB -1[']" GYP SHAFTLINER, 2 LAYERS POWDER-ACTUATED FASTENER - REF STRUCT

- ACOUSTICAL CAULKING UNDER SILL PLATE - UL-LISTED SEALANT (TYPE AS) - TOP OF SUBFLOOR TOP OF CONC SLAB

CONT. CHANNEL / C-RUNNER (H-STUD TRACK) W/'HILTI' X-U 37 P8 X 1-½"L POWDER-ACTUATED FASTENERS @ 24" OC - SET INTO BED OF TYPE AS ACOUSTICAL SEALANT ALONG EDGES OF TRACK

NOTE: ATTACH GYPSUM WALLBOARD TO METAL FRAMING USING 1-1/4" LONG BUGLE HEAD TYPE 'S' DRYWALL SCREWS @ 12" O.C. FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C 1002.



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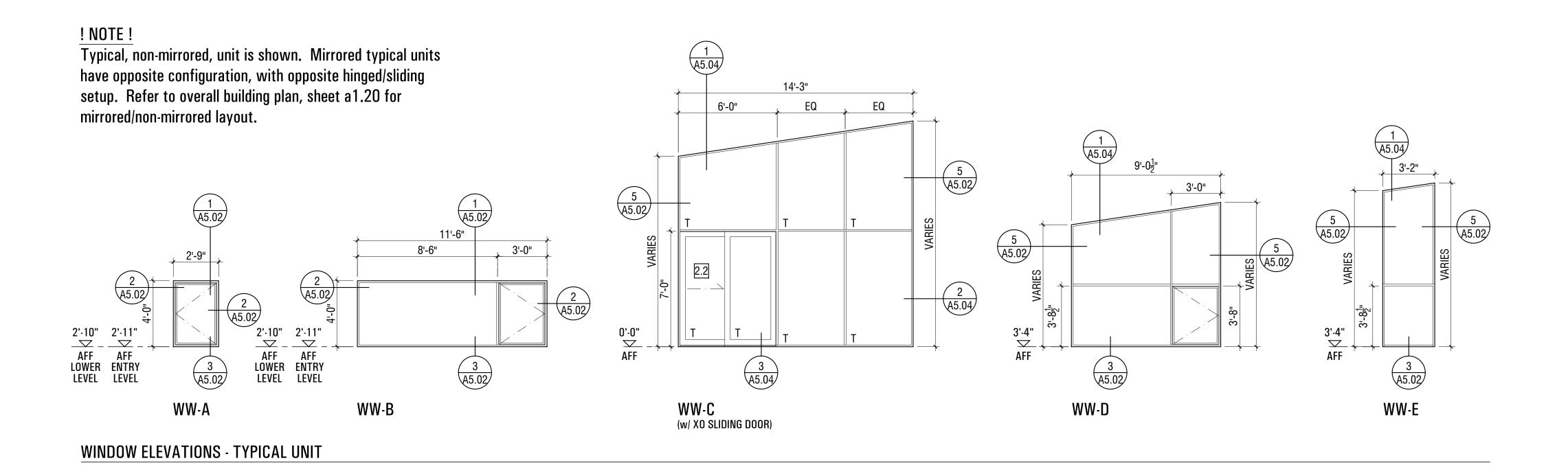


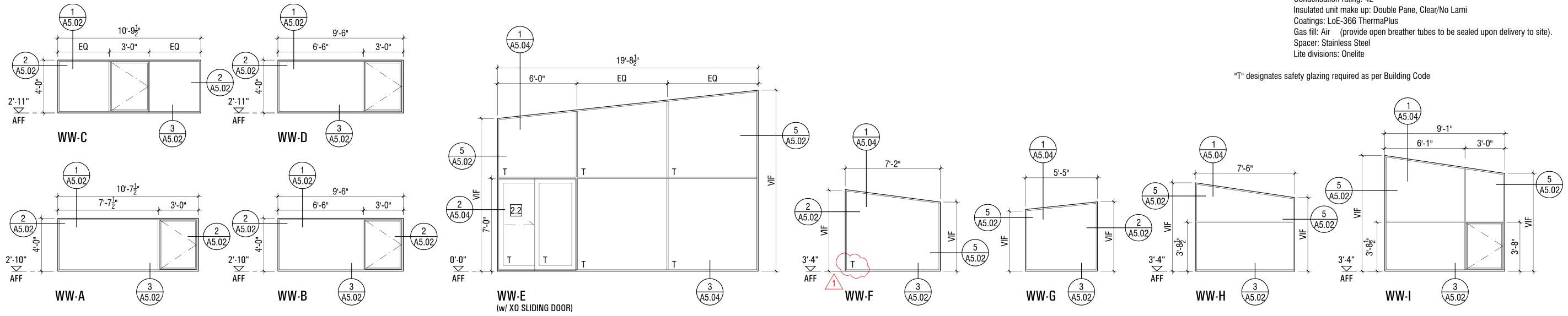


AS NOTED scale

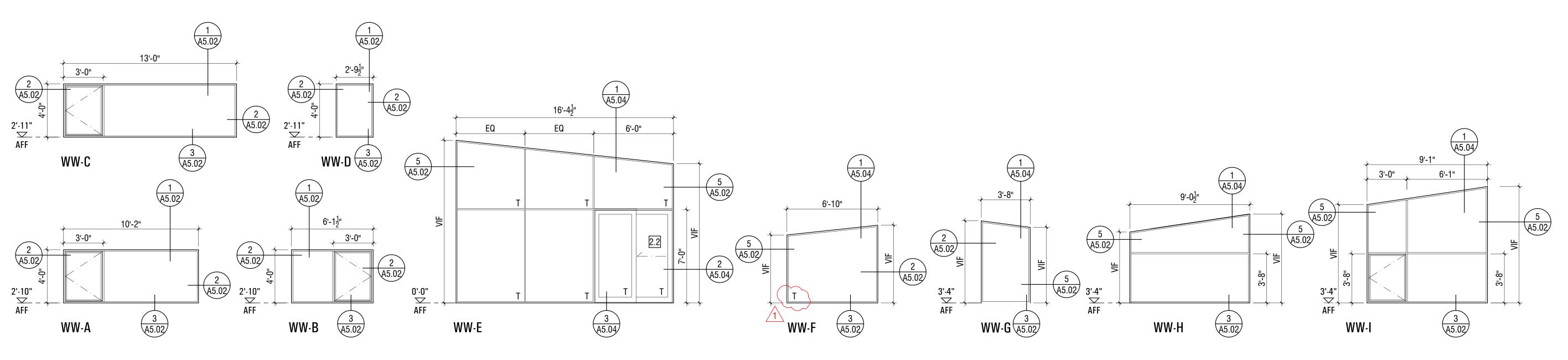
PERMIT SET phase / rev 2017.06.30 date

)/1\





WINDOW ELEVATIONS - LOT 124



WINDOW ELEVATIONS - LOT 133

GENERAL WINDOW SCHEDULE NOTES

- i. Refer to 'general sheets' for general notes, symbols, legends & abbreviations
- ii. Refer to building plans and exterior elevations for window wall locations
- iii. Refer to door schedule and details for additional information
- iv. Refer to plans for window marks and door swings.
- Glass sizes indicated are approximate and are provided as a general guide for reference only. Contractor to field verify all openings and correct any deviations from specified framing tolerances prior to proceeding; contractor to field verify all window dimensions prior to ordering ("guaranteed framing dimensions" will not be accepted).
- 2. Dimensions are to outside f.o. perimeter frame, not rough opening, and centerlines of intermediate mullions, typ u.n.o.
- 3. Dimensions at doors are to f.o. door slab/mullion, typ u.n.o.
- 4. All glazing used within 18" of a floor, glazing subject to human impact, and glazing within a 24" arc of a door, adjacent to stairs/ramps, and other hazardous locations as defined by the Code shall be fully tempered, or laminated glass.
- Window manufacturer is responsible for performing all engineering as required for detailing windows and mulled sections to accommodate story drift and wind loading. Contractor shall include all costs as required for steel reinforcing, hardwood and other components as required to accomplish daylight openings as per window elevations. All engineering calculations are to be provided to Structural Engineer of Record prior to procuring windows for coordination with building structure.
- Window manufacturer is responsible for providing all internal steel reinforcing at mulled sections, and for all matching sash cladding and trim required to conceal reinforcement at mulled conditions.

WINDOW SPECIFICATIONS (Basis of Design):

- Window frame wood species: paint-grade wood
- Window frame interior finish: pre-finished white, or primed for field painting if shop-finished is not available
- Exterior window cladding color: To be selected from manufacturer's standard colors. • Window hardware: Manufacturer's standard hardware in standard "Black" finish.
- Screens: Manufacturer's standard insect screens.
- Glazing: Manufacturer's standard available insulated glazing unit rated for high-altitude installation: NFRC CPD#: KKM-K-194-00426-00001
 - U-value: 0.27
 - SHGC: 0.21
 - Visible light transmittance: 0.47
 - Condensation rating: 42

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1/4" = 1'-0" scale

DOOR SCHEDULE DOOR MARK:

l 🖍 door no.

|--|

| ADDREVIA | | | |
|------------|------------------|------|--------------------|
| ALUM | aluminum clad wd | PTD | painted |
| CA | clear anodized | RO | rough opening |
| DR(S) | door(s) | S-C | self-closing |
| DTL'S | details | SCWD | solid core wood |
| (E) or (e) | existing | | door |
| GL | glass | | |
| Н | high, height | SF | storefront |
| HCWD | hollow core wood | SL | sidelite |
| | door | STC | sound transmission |
| HM | hollow metal | | class |
| HR | hour | STD | standard |
| HW | hardware | STL | steel |
| MANUF | manufacturer | SSTL | stainless steel |
| MIN | minute | TR | transom |
| NR | non rated | TS | tube steel |
| OH | overhead | VP | vision panel |
| PM | perforated metal | W | width |
| PR | pair | WD | wood |
| | | | |

* REFER TO HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION * **ALL DOOR HANDING IS BY CONTRACTOR AND DOOR SUPPLIER; NOTE ALL REFERENCES AND DETAILS ARE MADE TO TYPICAL UNIT; MIRRORED UNITS ARE OPPOSITE CONFIGURATION WITH OPPOSITE HANDING AND HARDWARE. REFER TO SITE PLAN FOR MIRRORED/NON-MIRRORED LAYOUT.**

DOOR NOTES:

- Net door height equals nominal door size minus 1/8" top clearance & 5/8" bottom clearance from door threshold (verify w/ mfr.) or finished floor elevation, typical u.n.o. - refer to details and hardware groups for special undercut requirements for door bottom.
- Net door width equals nominal door size minus 1/8" side clearance each side, typical u.n.o.
- 3. Glazing used in doors, glazing adjacent to doors, glazing within 18" of a floor, glazing subject to human impact, & glaz'g within a 24" arc of a door shall be fully tempered or laminated glass in accordance with IRC 308.
- 4. Contractor to field verify all openings and correct for any deviations & tolerances prior to proceeding.
- Refer to plan for swing (or slide) direction.
- All as viewed from the exterior/outside. Reinforce all hardware locations within doors and frames.
- 8. If provided, locate vision panels in center of door or as per door type. Provide 1/2" square glazing bead at perimeter of vision panel (both sides), typ u.n.o.
- 9. All keying shall be determined by Owner.
- 10. Finishes shall be applied to all exposed sides of doors, including tops and bottoms, whether visible or not.

DOOR AND HARDWARE SPECIFICATION NOTES:

- 1. Egress doors shall be readily openable from the egress side without the use of a key or special knowledge or effort. [IRC 311.2].
- All hardware to meet BHMA standards; provide full complement of hardware, weatherstripping, and accessories as required for a complete installation.
- 3. Coordinate hardware requirements with door thickness; provide extended spindles or other modifications as required.
- 4. All interior door lever sets, pocket door hardware, and bi-pass door hardware to be supplied from a single manufacturer from the same series, in identical finishes.

| DOOR | SCHEDULE - TYPICA | L LOTS | ; | | | | | | | | D00 | R SCHEDULE - LOT 12 | 24 | | | | | | | | | |
|-------|---|-----------|------------|------------------|--------------|--------------|-----------|------------------------|--------|---------------|------------------------|-----------------------------|---------|---------------|-----------------|-------|---------|-----------|----------|--------|--------|----------|
| | DOOR | | | FRAME | | | DETAILS | | SAFETY | HDW | | DOOR | | | FRAME | | | DETAILS | | SAFETY | HDW | |
| # | SIZE (W x H x THK) | TYPE | MAT'L | SIZE | MAT'L | HEAD | JAMB | SILL | GLAZ'G | SET # REMARKS | # | SIZE (W x H x THK) | TYPE | MAT'L | SIZE | MAT'L | HEAD | JAMB | SILL | GLAZ'G | SET # | REMARKS |
| 0.1 | 2'-10" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 2 | 0.1 | 2'-10" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3 | |
| 0.2 | 3'-0" x 8'-6" x 1-3/8" | C2 | SCWD | [3] | WD | 1/A5.11 | 2/A5.11 | -/- | N/A | 4 | 0.2 | 2'-10" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 2 | |
| 0.3 | 2'-10" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3 | 0.3 | 3'-0" x 7'-0" x 1-3/8" | C2 | SCWD | [3] | WD | 1/A5.11 | 2/A5.11 | -/- | N/A | 4 | |
| 0.4 | 3'-0" x 7'-0" x 1-3/8" | C2 | SCWD | [3] | WD | 1/A5.11 | 2/A5.11 | -/- | N/A | 4 | 0.4 | 2'-10" x 7'-0" x 1-3/8" | D1 | SCWD | [4] | WD | 4/A5.11 | 5/A5.11 | -/- | N/A | 3 | |
| 0.5 | 2'-10" x 7'-0" x 1-3/8" | D1 | SCWD | [4] | WD | 4/A5.11 | 5/A5.11 | -/- | N/A | 3 | 0.5 | 2'-10" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 2 | |
| | | | | | | | | | | | 0.6 | 2'-10" x 7'-0" x 1-3/8" | D1 | SCWD | [4] | WD | 4/A5.11 | 5/A5.11 | -/- | N/A | 3 | |
| 1.1 | 9'-0" x 7'-0"* x 2-1/2" | F | SCWD | N/A | WD* | 4/A5.03 | 2,5/A5.03 | 3/A5.03 | N/A | BY MFR [2] | 0.7 | 2'-0" x 7'-0" x 1-3/8"(PR) | C4 | SCWD | [4] | WD | -/- | -/- | -/- | N/A | 7 | |
| 1.2 | 3'-1-1/2" x 7'-0" x 2" | G | WD | N/A | N/A | -/- | -/- | -/- | N/A | 6 | 0.8 | 2'-0" x 7'-0" x 1-3/8"(PR) | C4 | SCWD | [4] | WD | -/- | -/- | -/- | N/A | 7 | |
| 1.3 | 3'-0" x 7'-0" x 2-1/2" | А | SCWD | 1-1/4" x 4-3/4" | WD | 8/A5.03 | 10/A5.03 | 11/A5.03 | N/A | 1 [1] | | | | | | | | | | | | |
| 1.4 | 3'-0" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 3/A5.11 | 3/A5.11 | -/- | N/A | 2.1 | 1.1 | 9'-0" x 7'-0"* x 2-1/2" | F | SCWD | N/A | WD* | 4/A5.03 | 2,5/A5.03 | 3/A5.03 | N/A | BY MFR | [2] |
| 1.5 | 2'-6" x 7'-0" x 1-3/8" (PR) | C3 | SCWD | N/A | N/A | -/- | -/- | -/- | N/A | 5.1 [5] | 1.2 | 3'-1-1/2" x 7'-0" x 2" | G | WD | N/A | N/A | -/- | -/- | -/- | N/A | 6 | |
| 1.6 | 2'-4" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3.1 | 1.3 | 3'-0" x 7'-0" x 2-1/2" | А | SCWD | 1-1/4" x 4-3/4" | WD | 8/A5.03 | 10/A5.03 | 11/A5.03 | N/A | 1 | [1] |
| 1.7 | 2'-6" x 7'-0" x 1-3/8" | C1 | SCWD | 1-1/4" x 4-3/4" | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3 | 1.4 | 3'-0" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 3/A5.11 | 3/A5.11 | -/- | N/A | 2.1 | |
| 1.8 | 3'-0" x 7'-0" x 1-3/8" | D1 | SCWD | [4] | WD | 4/A5.11 | 5/A5.11 | -/- | N/A | 3 | 1.5 | 2'-6" x 7'-0" x 1-3/8" (PR) | C3 | SCWD | N/A | N/A | -/- | -/- | -/- | N/A | 5.1 | [5], [6] |
| | | | | | | | | | | | 1.6 | 2'-4" x 7'-0" x 1-3/8" | C1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3.1 | |
| 2.1 | 2'-4" x 7'-0" x 1-3/8" | C1.1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3 | 1.7 | 2'-6" x 7'-0" x 1-3/8" | C1 | SCWD | 1-1/4" x 4-3/4" | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3 | |
| 2.2 | 6'-0" x 7'-0" x 1-3/4" | Е | ALU | 7/8" x 4-1/2" | ALU | -/- | 2/A5.04 | 3/A5.04 | Y | BY MFR | 1.8 | 2'-10" x 7'-0" x 1-3/8" | D1 | SCWD | [4] | WD | 4/A5.11 | 5/A5.11 | -/- | N/A | 3 | |
| | | | | | | | 1.9 | 3'-0" x 8'-6" x 1-3/8" | C2 | SCWD | [3] | WD | 1/A5.11 | 2/A5.11 | -/- | N/A | 4 | | | | | |
| REMAR | (5: | | | | | | | | | | | | | | | | | | | | | |
| [1] | Custom exterior wood door | with mate | hina flush | transom and side | eliaht - ref | snecificatio | ns | | | | 2.1 | 2'-4" x 7'-0" x 1-3/8" | C1.1 | SCWD | [4] | WD | 5/A5.11 | 5/A5.11 | -/- | N/A | 3 | |
| | [1] Custom exterior wood door with matching flush transom and sidelight - ref specifications. [2] Custom segmented overhead wood garage door with metal cladding to match adjacent metal wall cladding; door consists of standard panel segments | | | | | | | | | 2.2 | 6'-0" x 7'-0" x 1-3/4" | E | ALU | 7/8" x 4-1/2" | ALU | -/- | 2/A5.04 | 3/A5.04 | Y | BY MFR | | |

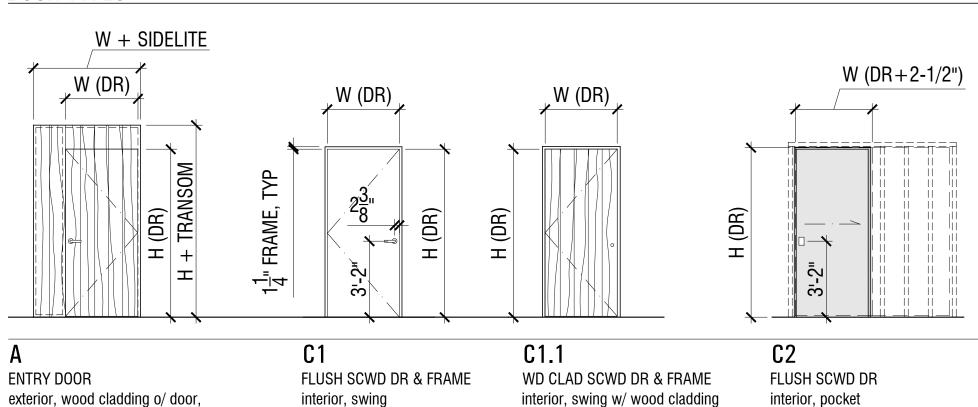
- [-] oou gulugo . with one (1) unique bottom panel sized to align with garage slab elevation. See typical door detail 1/A5.03.
- [3] Fabricated tube steel pocket door frame for 2x4 or 2x6 framed wall; ref details and field verify stud size for coordination.
- Match frame depth to finished wall thickness, typically 4-3/4" or 6-3/4". [4]

[5] Provide blocking in floor framing and header for pivots - recess bottom pivot mount flush with finished floor, and recess top pivot flush with bottom face of finished door header.

[6] Provide 1-1/4" undercut on all doors to laundry, typ.



sidelite and transom



DOOR HARDWARE SCHEDULE

DESCRIPTION:

ACCEPTABLE MANUFACTURERS -HINGES: Square corner full mortise butt hinges in finish US26D for exterior, US19 for interior, supplied by Emtek, or as supplied by Stanley Hardware, Schlage, or equivalent.

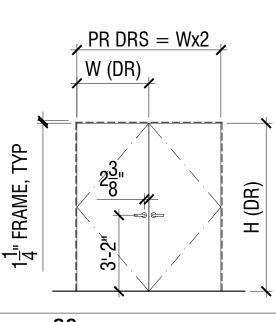
LEVER SETS: Exterior - FSB, no substitutions; Interior - Basis of Design: Emtek POCKET/BI-PASS HARDWARE: Basis of Design: Emtek DEADBOLTS: Basis of Design: Emtek

SET #·

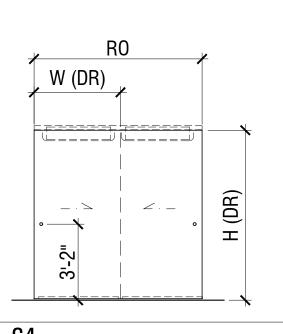
- Exterior Door Weatherstripping: by door fabricator; Threshold: Pemko 75518D bronze anodized aluminum; Butt Hinges: by door fabricator, US32D finish, heavy duty ball bearing (x3); Entry lever set: Emtek "Helios" lever with Emtek "EL-EM Touch" single cylinder 'smart' deadbolt in US19 finish; Door stop: lves FS18S; Door Viewer: Emtek #2610 in US15 finish; Doorbell: Emtek "RO-09" push button with disc rosette in US19 finish, transformer and chime by Nutone 16v model C907 located in garage, and model LA39WH painted to match wall located in entry level closet.
- Interior Storage/Utility Door Butt Hinges: Emtek "Square Barrel" 3-knuckle hinges (x3) in matte black finish; Lever set: Emtek "Helios" lever with Emtek #8467 single cylinder deadbolt in US19 finish; Door stop: lves FS18S if inside storage/utility room, or Emtek "2233 extendable baseboard door stop if in hallway.
- 2.1 Interior Garage Door: Threshold: Pemko 75518D bronze anodized aluminum; Butt Hinges: Emtek "Square Barrel" 3-knuckle hinges (x3) in matte black finish, (1) to be self-closing; Lever set: Emtek "TS-STP" Single cylinder deadbolt entry lever with "Helios" lever #5312 in matte black finish; Door stop: lves FS18S.
- 3. Interior Passage (swing) Door Butt Hinges: Emtek "Square Barrel" 3-knuckle hinges (x3) in matte black finish; Lever set: Emtek "Helios" lever with disc rosette and privacy function in matte black finish; Door stop: Emtek #2233 extendable baseboard door stop in US19 finish. 3.1 Same as hardware set 3 - provide passage function lever set
- 4. Interior Passage (pocket) Door - Acoustic seals: Zero International sliding and pocket door system; Pocket door hardware: Emtek "TS" Modern Rectangular Mortise lock with privacy function in matte black finish. Pocket door track by frame manufacturer.
- Interior Closet/Laundry Door Pivots: Ives 7253 top and bottom pivot set in US26D finish; Dummy handle set: Emtek "Helios" lever with disc rosette 5. and dummy function in matte black finish; Ball catch: Stanley 1440 in satin chrome finish (x2 - install at head and sill, typical). 5.1 Same as hardware set 5 - provide for paired doors (x2 gty).
- 6. Exterior Utility Panel - Continuous Hinge: Pemko BLFMSLISF-HD3 in black anodized finish; Ball catches: lves 347 stainless steel ball catch (x2), install at 1/3 points from top and bottom edges.
- 7. Bi-pass Closet Doors Track: Tektrim Double Flush Pocket Door Track system with tracks, end mounting plates, and bottom guide track/plunger by track hardware manufacturer; Door Stop: by track hardware manufacturer; Pulls: Emtek #2211 flush round pull in US19 finish.

| DOOR | SCHEDU | LE - L | .OT | 133 |
|------|--------|--------|-----|-----|

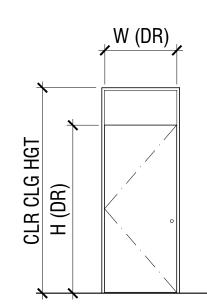
| 000 | | 0 |
|-----|-----------------------------|------|
| | DOOR | |
| # | SIZE (W x H x THK) | TYPE |
| 0.1 | 2'-10" x 7'-0" x 1-3/8" | C1 |
| 0.2 | 2'-10" x 7'-0" x 1-3/8" | C1 |
| 0.3 | 3'-0" x 7'-0" x 1-3/8" | C2 |
| 0.4 | 2'-0" x 7'-0" x 1-3/8"(PR) | D1 |
| 0.5 | 2'-10" x 7'-0" x 1-3/8" | C1 |
| 0.6 | 2'-10" x 7'-0" x 1-3/8" | D1 |
| 0.7 | 3'-3" x 7'-0" x 1-3/8"(PR) | C4 |
| | | |
| 1.1 | 9'-0" x 7'-0"* x 2-1/2" | F |
| 1.2 | 3'-1-1/2" x 7'-0" x 2" | G |
| 1.3 | 3'-0" x 7'-0" x 2-1/2" | А |
| 1.4 | 3'-0" x 7'-0" x 1-3/8" | C1 |
| 1.5 | 2'-6" x 7'-0" x 1-3/8" (PR) | C3 |
| 1.6 | 2'-4" x 7'-0" x 1-3/8" | C1 |
| 1.7 | 2'-6" x 7'-0" x 1-3/8" | C1 |
| 1.8 | 2'-10" x 7'-0" x 1-3/8" | D1 |
| 1.9 | 3'-0" x 8'-6" x 1-3/8" | C2 |
| | | |
| 2.1 | 2'-4" x 7'-0" x 1-3/8" | C1.1 |
| 2.2 | 6'-0" x 7'-0" x 1-3/4" | Е |

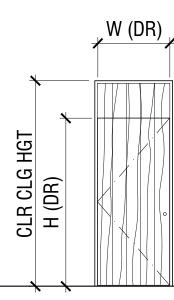


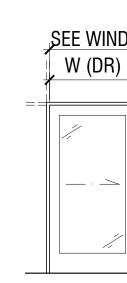
СЗ FLUSH SCWD DR, PR interior, paired swing (frameless)



C4 FLUSH SCWD DR, BI-PASS interior, paired sliding







D1 WD CLAD SCWD DR & FRAME interior, swing w/ transom

D1.1 WD CLAD SCWD DR & FRAME interior, swing w/ transom and wood cladding

exterior, sliding

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sma project no. 16-101

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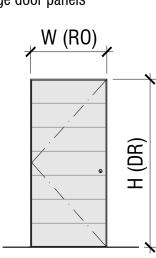
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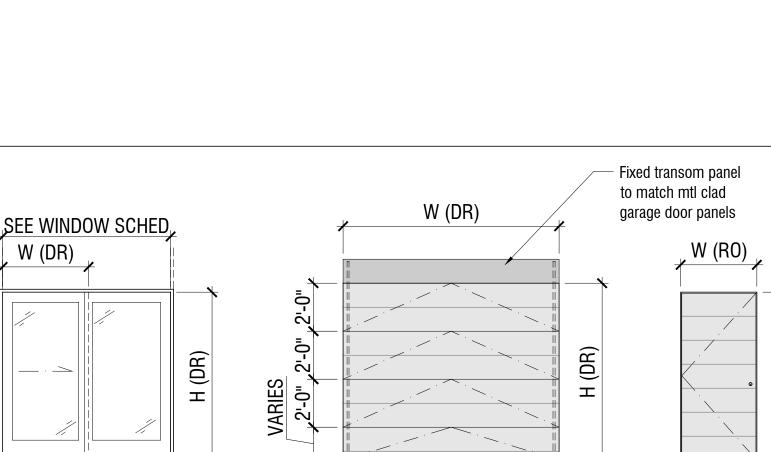
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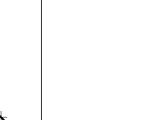


ALUM CLAD WD DR & FRAME

METAL CLAD GARAGE DOOR exterior, custom height

> PERMIT SET phase / rev **2017.06.01** date

NTS scale



JOR SCHEDULES

N/A -/--/-5/A5.11 5/A5.11 WD 5/A5.11 5/A5.11 SCWD | 1-1/4" x 4-3/4" | WD WD 4/A5.11 5/A5.11 WD 1/A5.11 2/A5.11

3/A5.11

DETAILS

JAMB

5/A5.11

2/A5.11

5/A5.11

SILL

-/-

-/-

-/-

-/-

-/-

-/-

-/-

-/-

-/-

-/-

-/-

-/- 2/A5.04 3/A5.04 Y BY MFR

WD* 4/A5.03 2,5/A5.03 3/A5.03 N/A BY MFR [2]

N/A -/- -/- -/- N/A 6

8/A5.03 10/A5.03 11/A5.03 N/A

WD 5/A5.11 5/A5.11 -/- N/A 3

3/A5.11

SAFETY HDW

N/A 3

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A 7

GLAZ'G SET # REMARKS

2

4

3

2

3

1 [[1]

2.1 N/A 5.1 [5], [6]

3.1

3

3

N/A 4

FRAME

MAT'L

WD

WD

WD

WD

WD

WD

WD

HEAD

5/A5.11

1/A5.11

4/A5.11

WD 5/A5.11 5/A5.11

5/A5.11 5/A5.11

4/A5.11 5/A5.11

-/- -/-

SIZE

[4]

[4]

[3]

[4]

[4]

[4]

[4]

N/A

SCWD 1-1/4" x 4-3/4" WD

N/A

[4]

[4]

[3]

[4]

7/8" x 4-1/2" ALU

N/A

MAT'L

SCWD

SCWD

SCWD

SCWD

SCWD

SCWD

SCWD

SCWD

WD

SCWD

SCWD

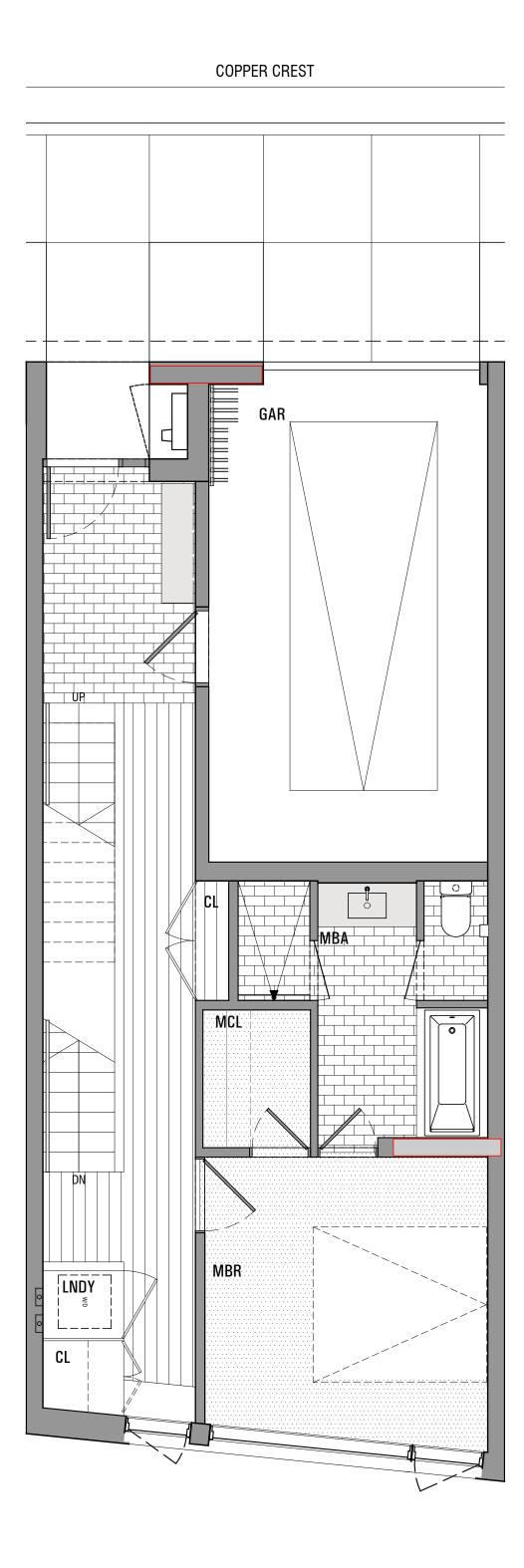
SCWD

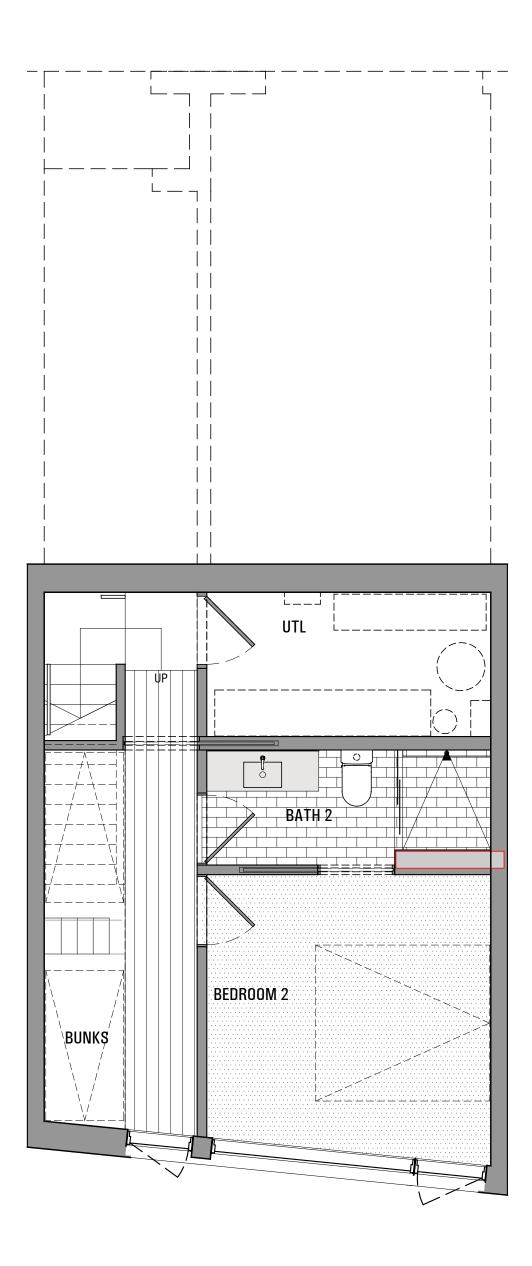
SCWD

SCWD

SCWD

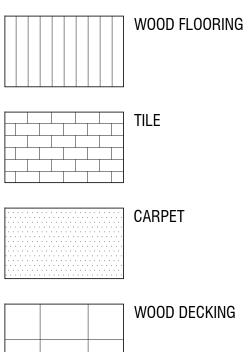
ALU







GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



FINISH SCHEDULE GENERAL NOTES:

Refer to plans, building sections, interior elevations, and details for specific conditions which may vary from typical conditions noted below. Refer to specifications for additional information on all finishes, accessories, and installation requirements. Contractor shall take care to review material transition requirements for coordination with substrates and concealed conditions - do not proceed with finishes installation without correcting any

deficiencies. Review all finish requirements with Architect prior to commencing work.

| CA | clear anodized alum | GWB | gypsum wall board |
|------|-------------------------|---------|-------------------|
| CLG | ceiling | HDWD | hardwood |
| CLR | clear | MTL | metal |
| CONC | concrete | MWK | millwork |
| CPT | carpet | PNT/PTD | painted |
| DEFS | direct-applied exterior | RB | rubber base |
| | finish system | SCHD | scheduled |
| ENG | engineered | SLR | sealer |
| FF | finished floor | STL | steel |
| FIN | finish/finished | Т | tile |
| GL | glass | WD | wood |

TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT

WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

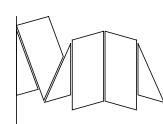
| TYPICAL LOT | | | | | |
|-----------------|----------|---------|------|----------|---------|
| ROOM NAME | CEILINGS | WALLS | BASE | FLOOR | REMARKS |
| LOWER LEVEL | | | | | |
| BUNKS | PTD GWB | PTD GWB | WD | ENG WD | |
| UTILITY ROOM | PTD GWB | PTD GWB | RB | CONC | [3] |
| BATH 2 | PTD GWB | PTD GWB | WD/T | T | [1] |
| BEDROOM 2 | PTD GWB | PTD GWB | WD | CPT | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| ENTRY LEVEL | | | | · | |
| GARAGE | PTD GWB | PTD GWB | RB | CONC | [3] |
| ENTRY/ HALLWAY | PTD GWB | PTD GWB | WD | T/ENG WD | |
| MASTER BEDROOM | PTD GWB | PTD GWB | WD | CPT | |
| MASTER CLOSET | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH | PTD GWB | PTD GWB | WD/T | T | [1] |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| UPPER LEVEL | • | | | | |
| KITCHEN/ DINING | PTD GWB | PTD GWB | WD | ENG WD | |
| LIVING | PTD GWB | PTD GWB | WD | ENG WD | |
| POWDER ROOM | PTD GWB | PTD GWB | WD/T | T | [1] |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| TERRACE | DEFS | WD/MTL | N/A | WD | [2] |
| NOTEO | • | • | | | • |

NOTES

Refer to interior elevations for locations/extents of multiple materials. Provide clean, [1] flush transitions at material joints, and provide neatly tooled, paintable siliconized sealant.

[2] Refer to specific component details for additional information and installation/material requirements.

[3] Provide clear sealer on all exposed concrete surfaces.



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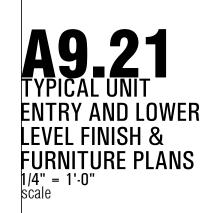
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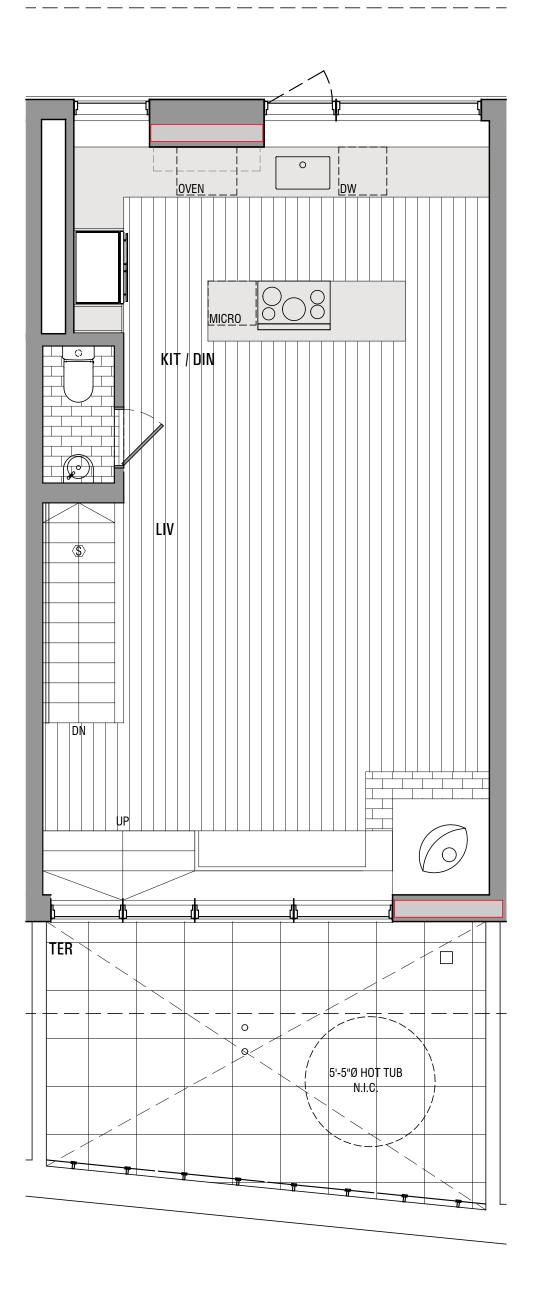
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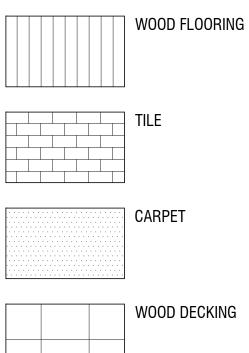


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| СА | clear anodized alum | GWB | gypsum wall board |
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| CPT | carpet | PNT/PTD | painted |
| DEFS | direct-applied exterior | RB | rubber base |
| | finish system | SCHD | scheduled |
| ENG | engineered | SLR | sealer |
| FF | finished floor | STL | steel |
| FIN | finish/finished | Т | tile |
| GL | glass | WD | wood |

TYPICAL FINISH CONDITIONS:

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BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

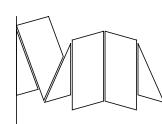
| TYPICAL LOT | | | | | |
|-----------------|----------|---------|------|----------|---------|
| ROOM NAME | CEILINGS | WALLS | BASE | FLOOR | REMARKS |
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| UTILITY ROOM | PTD GWB | PTD GWB | RB | CONC | [3] |
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| BEDROOM 2 | PTD GWB | PTD GWB | WD | CPT | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| ENTRY LEVEL | | | | · | |
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| UPPER LEVEL | • | | | | |
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| LIVING | PTD GWB | PTD GWB | WD | ENG WD | |
| POWDER ROOM | PTD GWB | PTD GWB | WD/T | T | [1] |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| TERRACE | DEFS | WD/MTL | N/A | WD | [2] |
| NOTEO | • | • | | | • |

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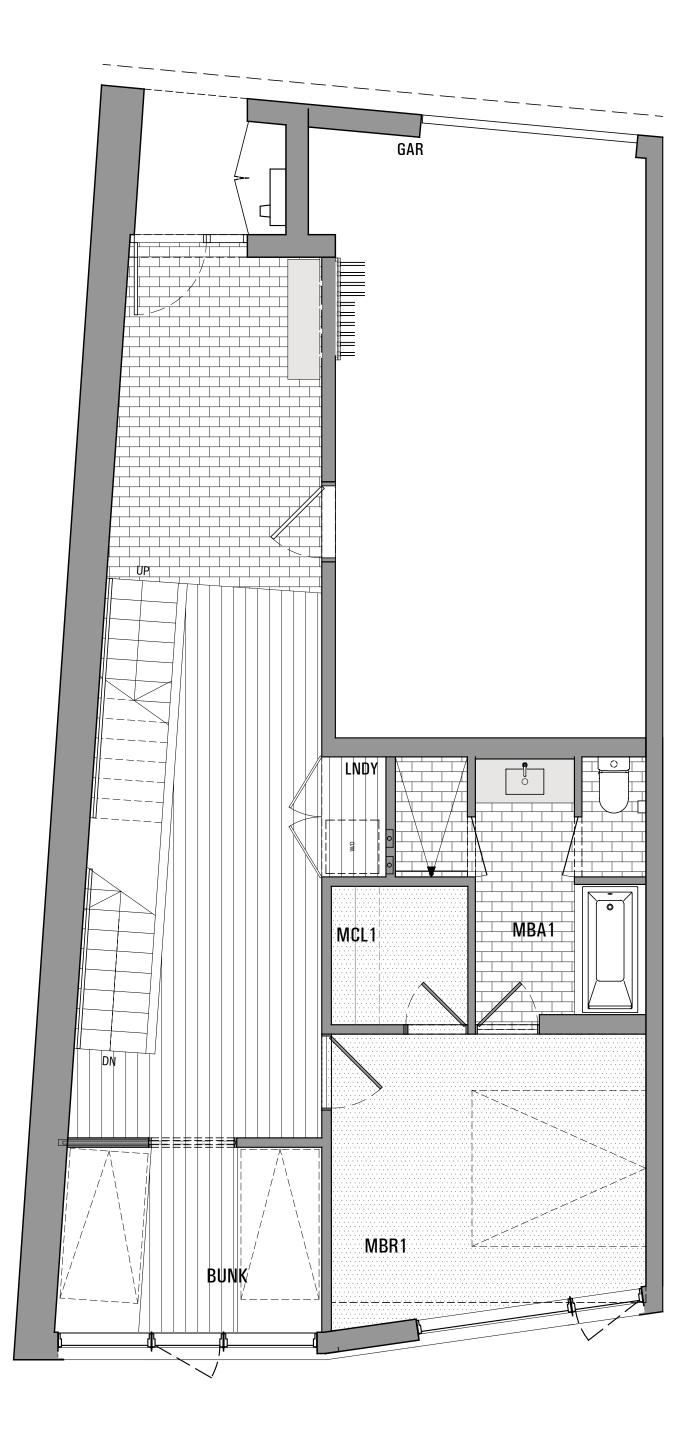
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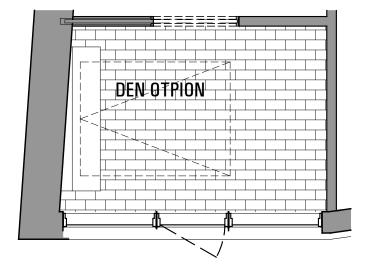


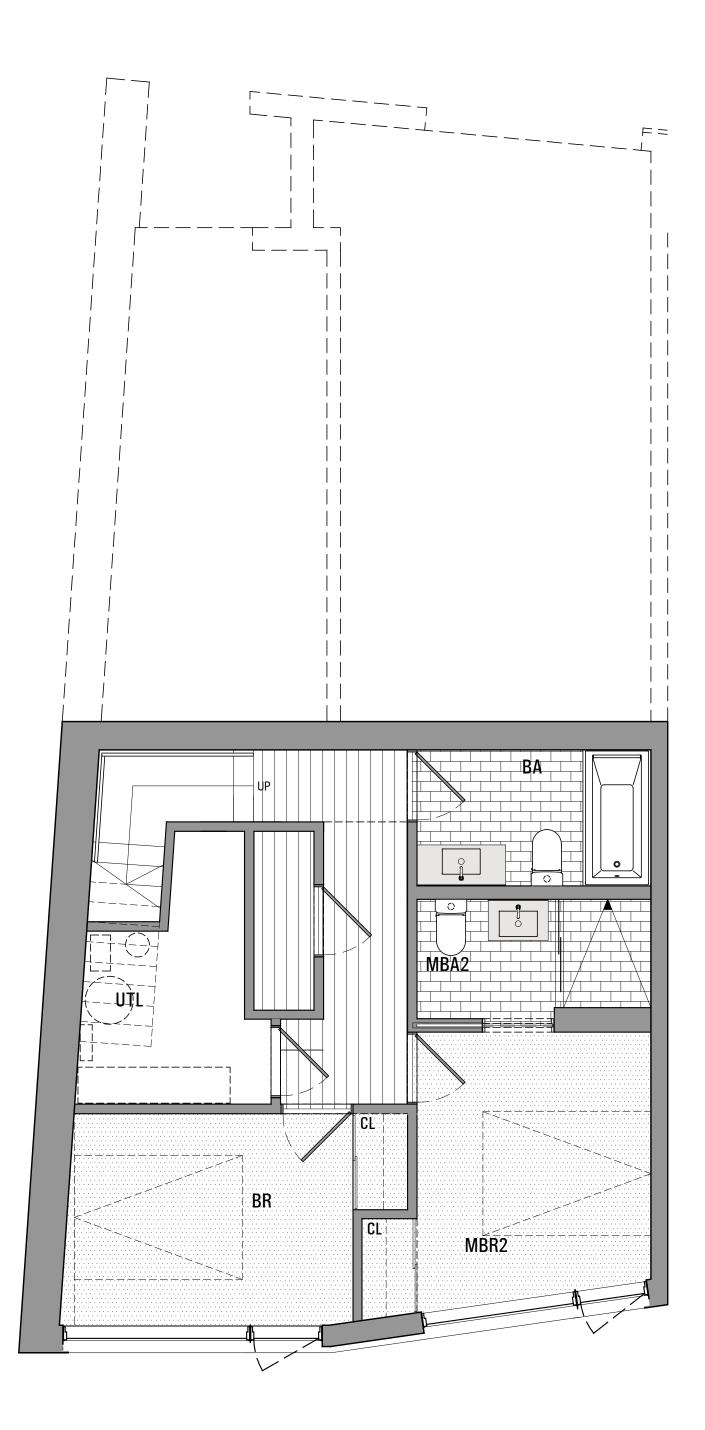


1/4" = 1'-0" scale

PERMIT SET phase / rev **2017.06.01** date

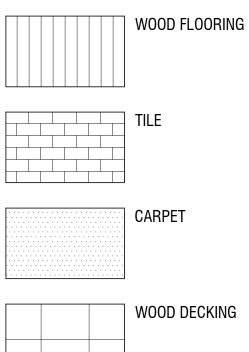








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| | | | |

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WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

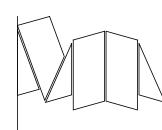
| LOT 124 | | | | | |
|------------------|----------|---------|------|----------|---------|
| ROOM NAME | CEILINGS | WALLS | BASE | FLOOR | REMARKS |
| LOWER LEVEL | | • | • | | |
| HALLWAY | PTD GWB | PTD GWB | WD | ENG WD | |
| CLOSET | PTD GWB | PTD GWB | WD | ENG WD | |
| UTILITY ROOM | PTD GWB | PTD GWB | RB | CONC | [3] |
| BATH | PTD GWB | PTD GWB | WD/T | Т | [1] |
| BEDROOM | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH 2 | PTD GWB | PTD GWB | WD/T | Т | [1] |
| MASTER BED 2 | PTD GWB | PTD GWB | WD | CPT | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| ENTRY LEVEL | | | | | |
| GARAGE | PTD GWB | PTD GWB | RB | CONC | [3] |
| ENTRY/ HALLWAY | PTD GWB | PTD GWB | WD | T/ENG WD | |
| MASTER BEDROOM 1 | PTD GWB | PTD GWB | WD | CPT | |
| MASTER CLOSET | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH | PTD GWB | PTD GWB | WD/T | Т | [1] |
| BUNK | PTD GWB | PTD GWB | WD | ENG WD | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| UPPER LEVEL | | | • | | |
| KITCHEN/ DINING | PTD GWB | PTD GWB | WD | ENG WD | |
| LIVING | PTD GWB | PTD GWB | WD | ENG WD | |
| POWDER ROOM | PTD GWB | PTD GWB | WD/T | Т | [1] |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| TERRACE | DEFS | WD/MTL | N/A | WD | [2] |

NOTES

[1] Refer to interior elevations for locations/extents of multiple materials. Provide clean, flush transitions at material joints, and provide neatly tooled, paintable siliconized sealant.

[2] Refer to specific component details for additional information and installation/material requirements.

[3] Provide clear sealer on all exposed concrete surfaces.



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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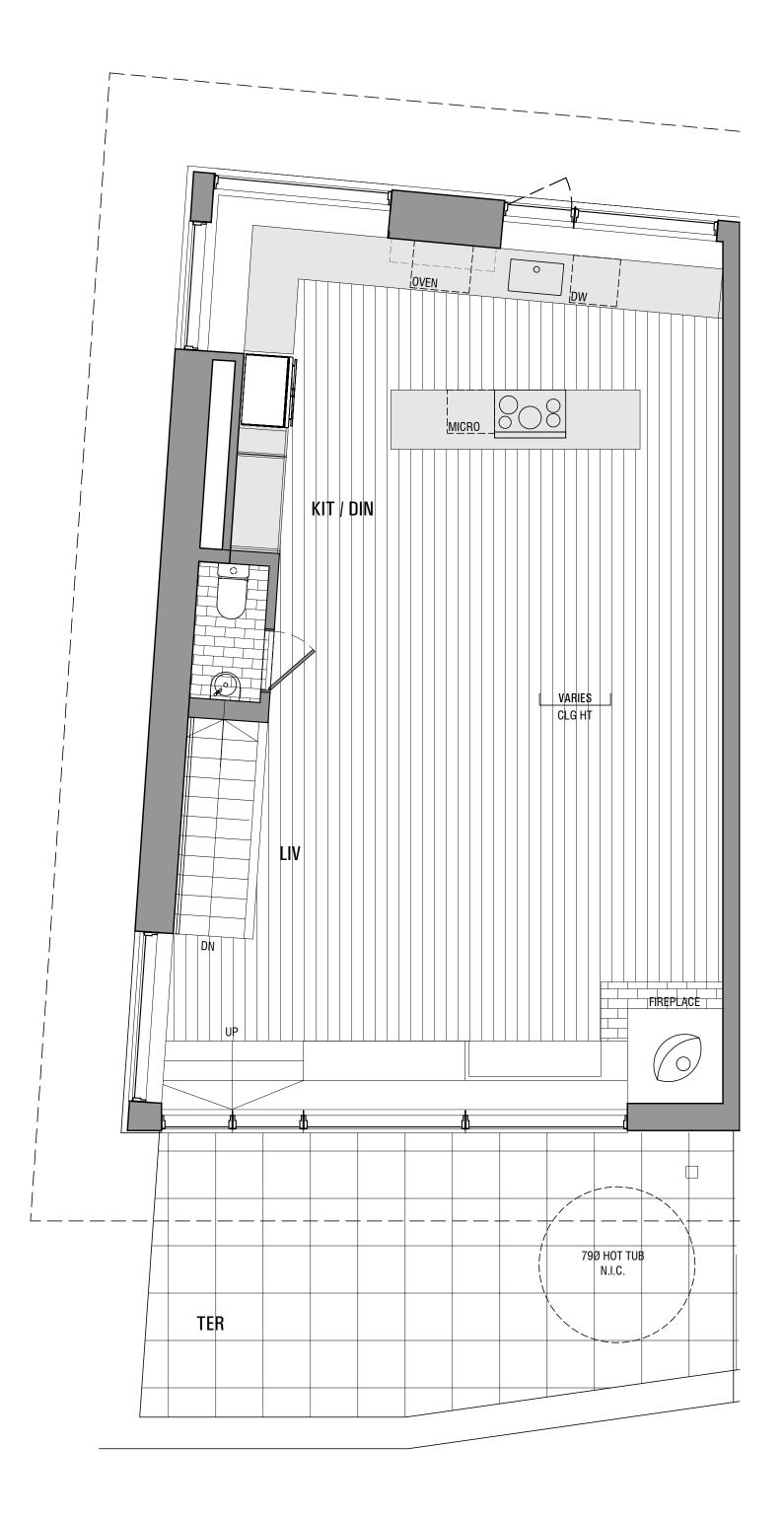
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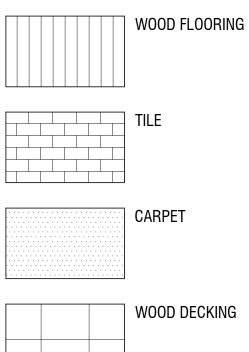
1/4" = 1'-0" scale

PERMIT SET phase / rev **2017.06.01** date





GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



FINISH SCHEDULE GENERAL NOTES:

Refer to plans, building sections, interior elevations, and details for specific conditions which may vary from typical conditions noted below. Refer to specifications for additional information on all finishes, accessories, and installation requirements. Contractor shall take care to review material transition requirements for coordination with substrates and concealed conditions - do not proceed with finishes installation without correcting any

deficiencies. Review all finish requirements with Architect prior to commencing work.

| ABBREAN | ATIONS: | | |
|---------|-------------------------|---------|-------------------|
| CA | clear anodized alum | GWB | gypsum wall board |
| CLG | ceiling | HDWD | hardwood |
| CLR | clear | MTL | metal |
| CONC | concrete | MWK | millwork |
| CPT | carpet | PNT/PTD | painted |
| DEFS | direct-applied exterior | RB | rubber base |
| | finish system | SCHD | scheduled |
| ENG | engineered | SLR | sealer |
| FF | finished floor | STL | steel |
| FIN | finish/finished | Т | tile |
| GL | glass | WD | wood |
| | | | |

TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT

WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

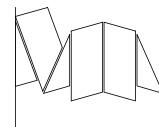
| LOT 124 | | | | | |
|------------------|----------|---------|------|----------|---------|
| ROOM NAME | CEILINGS | WALLS | BASE | FLOOR | REMARKS |
| LOWER LEVEL | | • | • | | |
| HALLWAY | PTD GWB | PTD GWB | WD | ENG WD | |
| CLOSET | PTD GWB | PTD GWB | WD | ENG WD | |
| UTILITY ROOM | PTD GWB | PTD GWB | RB | CONC | [3] |
| BATH | PTD GWB | PTD GWB | WD/T | Т | [1] |
| BEDROOM | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH 2 | PTD GWB | PTD GWB | WD/T | Т | [1] |
| MASTER BED 2 | PTD GWB | PTD GWB | WD | CPT | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| ENTRY LEVEL | | | | | |
| GARAGE | PTD GWB | PTD GWB | RB | CONC | [3] |
| ENTRY/ HALLWAY | PTD GWB | PTD GWB | WD | T/ENG WD | |
| MASTER BEDROOM 1 | PTD GWB | PTD GWB | WD | CPT | |
| MASTER CLOSET | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH | PTD GWB | PTD GWB | WD/T | Т | [1] |
| BUNK | PTD GWB | PTD GWB | WD | ENG WD | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| UPPER LEVEL | - | | | | |
| KITCHEN/ DINING | PTD GWB | PTD GWB | WD | ENG WD | |
| LIVING | PTD GWB | PTD GWB | WD | ENG WD | |
| POWDER ROOM | PTD GWB | PTD GWB | WD/T | Т | [1] |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| TERRACE | DEFS | WD/MTL | N/A | WD | [2] |

NOTES

[1] Refer to interior elevations for locations/extents of multiple materials. Provide clean, flush transitions at material joints, and provide neatly tooled, paintable siliconized sealant.

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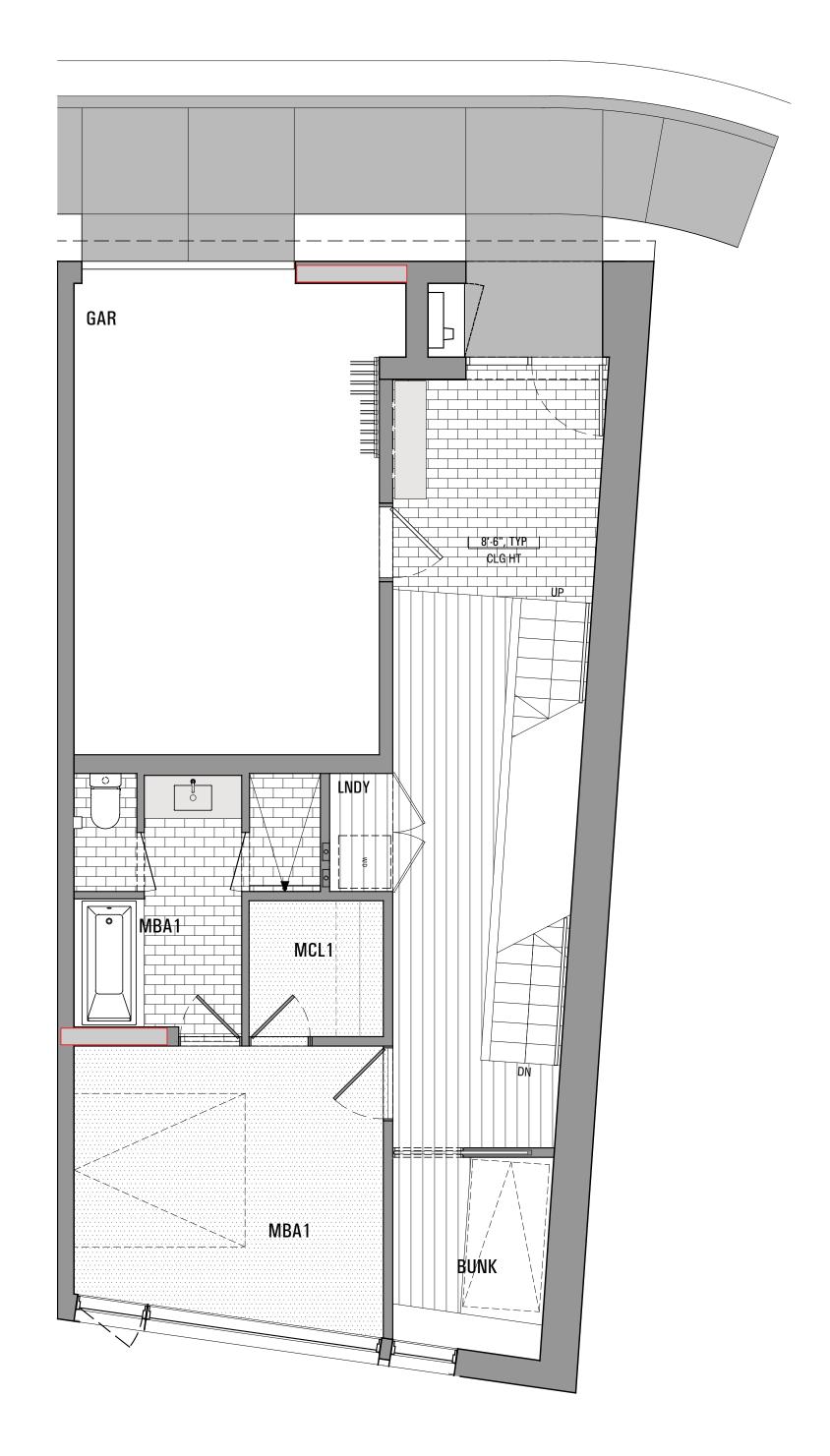


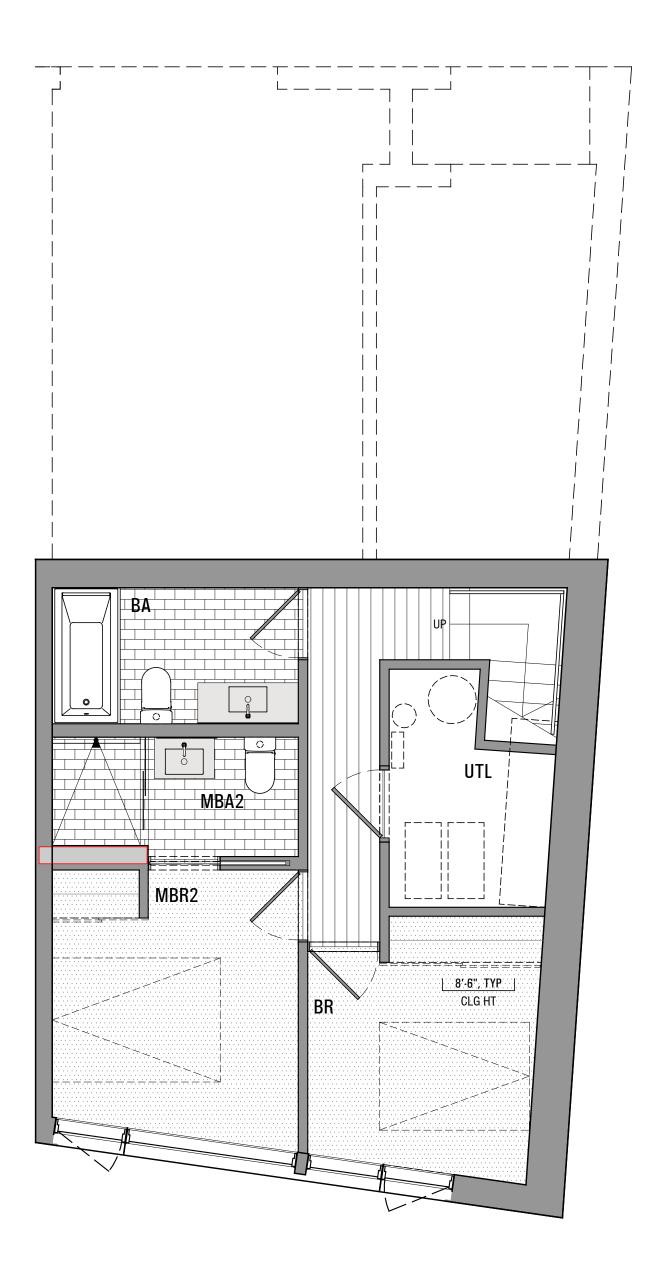


1/4" = 1'-0" scale

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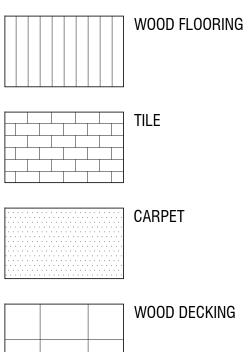






MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



FINISH SCHEDULE GENERAL NOTES:

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ABBREVIATIONS:

| ADDITEVIA | TIONS. | | |
|-----------|-------------------------|---------|-------------------|
| CA | clear anodized alum | GWB | gypsum wall board |
| CLG | ceiling | HDWD | hardwood |
| CLR | clear | MTL | metal |
| CONC | concrete | MWK | millwork |
| CPT | carpet | PNT/PTD | painted |
| DEFS | direct-applied exterior | RB | rubber base |
| | finish system | SCHD | scheduled |
| ENG | engineered | SLR | sealer |
| FF | finished floor | STL | steel |
| FIN | finish/finished | Т | tile |
| GL | glass | WD | wood |
| | | | |

TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT

WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

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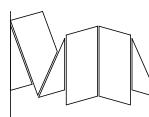
| LOT 133 | | | | | |
|------------------|----------|---------|------|----------|---------|
| ROOM NAME | CEILINGS | WALLS | BASE | FLOOR | REMARKS |
| LOWER LEVEL | | | | | |
| HALLWAY | PTD GWB | PTD GWB | WD | ENG WD | |
| UTILITY ROOM | PTD GWB | PTD GWB | RB | CONC | [3] |
| BATH | PTD GWB | PTD GWB | WD/T | Т | [1] |
| BEDROOM | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH 2 | PTD GWB | PTD GWB | WD/T | Т | [1] |
| MASTER BED 2 | PTD GWB | PTD GWB | WD | CPT | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| ENTRY LEVEL | | • | | | |
| GARAGE | PTD GWB | PTD GWB | RB | CONC | [3] |
| ENTRY/ HALLWAY | PTD GWB | PTD GWB | WD | T/ENG WD | |
| MASTER BEDROOM 1 | PTD GWB | PTD GWB | WD | CPT | |
| MASTER CLOSET | PTD GWB | PTD GWB | WD | CPT | |
| MASTER BATH | PTD GWB | PTD GWB | WD/T | Т | [1] |
| BUNK | PTD GWB | PTD GWB | WD | ENG WD | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| UPPER LEVEL | | • | | | |
| KITCHEN/ DINING | PTD GWB | PTD GWB | WD | ENG WD | |
| LIVING | PTD GWB | PTD GWB | WD | ENG WD | |
| POWDER ROOM | PTD GWB | PTD GWB | WD/T | Т | [1] |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] |
| TERRACE | DEFS | WD/MTL | N/A | WD | [2] |

NOTES

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sma project no. 16-101

sma project name POWDERCAT

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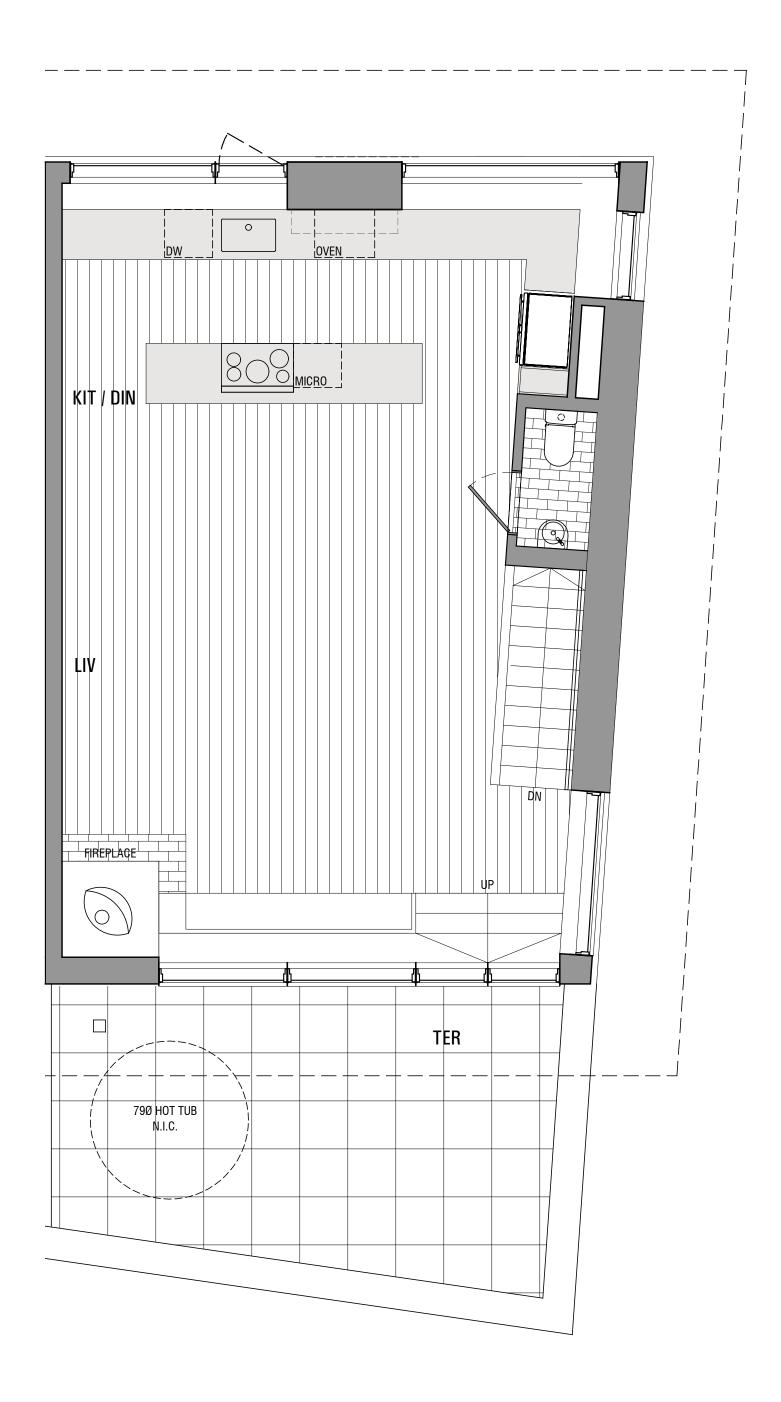
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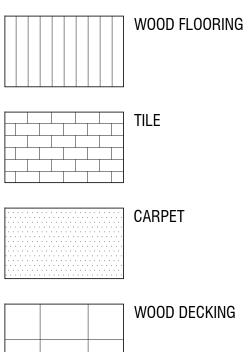
1/4" = 1'-0" scale

PERMIT SET phase / rev **2017.06.01** date





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FINISH SCHEDULE GENERAL NOTES:

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ABBREVIATIONS:

| ADDITEVIA | | | |
|-----------|-------------------------|---------|-------------------|
| CA | clear anodized alum | GWB | gypsum wall board |
| CLG | ceiling | HDWD | hardwood |
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| CONC | concrete | MWK | millwork |
| CPT | carpet | PNT/PTD | painted |
| DEFS | direct-applied exterior | RB | rubber base |
| | finish system | SCHD | scheduled |
| ENG | engineered | SLR | sealer |
| FF | finished floor | STL | steel |
| FIN | finish/finished | Т | tile |
| GL | glass | WD | wood |
| | | | |

TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT

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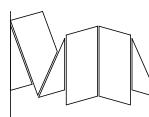
| LOT 133 | | | | | | | | | |
|------------------|----------|---------|------|----------|---------|--|--|--|--|
| ROOM NAME | CEILINGS | WALLS | BASE | FLOOR | REMARKS | | | | |
| LOWER LEVEL | | | | | | | | | |
| HALLWAY | PTD GWB | PTD GWB | WD | ENG WD | | | | | |
| UTILITY ROOM | PTD GWB | PTD GWB | RB | CONC | [3] | | | | |
| BATH | PTD GWB | PTD GWB | WD/T | Т | [1] | | | | |
| BEDROOM | PTD GWB | PTD GWB | WD | CPT | | | | | |
| MASTER BATH 2 | PTD GWB | PTD GWB | WD/T | Т | [1] | | | | |
| MASTER BED 2 | PTD GWB | PTD GWB | WD | CPT | | | | | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] | | | | |
| ENTRY LEVEL | | | | | | | | | |
| GARAGE | PTD GWB | PTD GWB | RB | CONC | [3] | | | | |
| ENTRY/ HALLWAY | PTD GWB | PTD GWB | WD | T/ENG WD | | | | | |
| MASTER BEDROOM 1 | PTD GWB | PTD GWB | WD | CPT | | | | | |
| MASTER CLOSET | PTD GWB | PTD GWB | WD | CPT | | | | | |
| MASTER BATH | PTD GWB | PTD GWB | WD/T | Т | [1] | | | | |
| BUNK | PTD GWB | PTD GWB | WD | ENG WD | | | | | |
| STAIRS | PTD GWB | PTD GWB | WD | WD | [2] | | | | |
| UPPER LEVEL | | | | | | | | | |
| KITCHEN/ DINING | PTD GWB | PTD GWB | WD | ENG WD | | | | | |
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1/4" = 1'-0" scale

PERMIT SET phase / rev **2017.06.01** date

GENERAL STRUCTURAL NOTES:

- I. <u>GENERAL:</u>
- A. ALL CONSTRUCTION AND TESTING IS TO BE IN STRICT ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AND ALL RELATED PUBLICATIONS OF THE I.C.C.
- B. ALL ICC REPORTS REFERENCED IN THIS REPORT ARE AVAILABLE FREE OF CHARGE AT
- HTTP://WWW.ICC-ES.ORG. C. THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.
- D. STRUCTURAL NOTES SHALL BE USED ALONG WITH THE SPECIFICATIONS AND DRAWINGS. WHERE THE STRUCTURAL NOTES, STRUCTURAL AND ARCHITECTURAL DRAWINGS OR SPECIFICATIONS DISAGREE, THE CONTRACTOR MAY REQUEST A CLARIFICATION DURING THE BIDDING PERIOD, OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL (AS DETERMINED BY THIS ENGINEER).
- PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
- F. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- G. VERIFY AND COORDINATE ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING
- WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES. STRUCTURAL DETAILS: DETAILS ARE APPLICABLE WHERE INDICATED BY SECTION CUT, BY NOTE OR BY DETAIL TITLE. PROVIDE SIMILAR DETAILS AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY REQUEST A CLARIFICATION DURING THE BIDDING PERIOD OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL (AS DETERMINED BY THIS ENGINEER) I. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SLAB ELEVATIONS AND SLOPES NOT
- NOTED J. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL
- BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN UTAH.
- K. THE COST OF DESIGN WORK RESULTING FROM ERRORS OR OMISSIONS IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
- II. DESIGN CRITERIA:
- A. <u>BUILDING CODE:</u> WEBER COUNTY, UTAH, 2015 I.B.C.
- B. <u>LOADINGS:</u>
 - INTERIOR FLOOR DEAD LOAD FINISH ALLOWANCE = 12 PSF MAX.
 - GROUND SNOW LOAD = 262.5 PSF w/ DRIFTS PER ASCE 7-10
 - ROOF DESIGN SNOW LOAD = 259 PSF 4. TYPICAL FLOOR & STAIR LIVE LOAD = 40 PSF (RESIDENTIAL)
 - 5. EXTERIOR TERRACE LIVE LOAD = 60 PSF
 - 6. PROJECT RISK CATEGORY = II
 - 7. WIND LOADS:
 - a) ULTIMATE VELOCITY = 115 MPH
 - b) ENCLOSED c) EXPOSURE = C

 - 8. <u>SEISMIC LOADS:</u>
 - a) SOIL SITE CLASS = C b) $S_s = 0.811$, SDS = .635
 - c) S1 = 0.269, SD1 = .334
 - d) SEISMIC DESIGN CATEGORY = D
 - e) R = 6.5, Cd=4, OMEGA = 3 (WOOD SHEAR WALLS) f) RHO = 1.3
 - g) le = 1.00
 - h) Cs = 0.0977 ULT, 0.0684 ASD
- C. SOIL BEARING ALLOWABLE
 - 1. PER SOILS INVESTIGATION REPORT BY "INTERMOUNTAIN GEOENVIRONMENTAL SERVICES, INC.", PROJECT NO. 01628-022. REFER TO THIS REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - 2. ALL FOOTINGS ARE TO BE FOUNDED EITHER ON ENTIRELY ON COMPETENT NATIVE SOILS OR ENTIRELY ON COMPACTED FILLS AS DESCRIBED IN THE GEOTECHNICAL REPORT. MIXING OF BEARING MATERIALS IS NOT ALLOWED. THE SUITABLE NATIVE SOILS ARE EXPECTED TO OCCUR AT BETWEEN 2 AND 3 FEET BELOW THE ORIGINAL PRE-ROAD GRADE ON THE SITE.
 - 3. ALLOWABLE NET BEARING PRESSURE ON THESE SOILS IS 2400 PSF AS INDICATED IN THE GEOTECHNICAL REPORT. ALL FOOTING BEARING MATERIALS, WIDTHS AND DEPTHS ARE TO BE VERIFIED BY THE GEOTECHNICAL SPECIAL INSPECTOR.
 - 4. IN ADDITION TO THE ABOVE REQUIREMENTS, ALL FOOTINGS EXPOSED TO THE EXTERIOR ARE TO BE FOUNDED AT NOT LESS THAN 3'-6" BELOW FINAL EXTERIOR GRADE FOR FROST COVERAGE. FOOTING ELEVATIONS INDICATED ARE BASED ON THE ASSUMED FINAL GRADES AT THE PERIMETER OF THE BUILDING. CONTRACTOR SHALL VERIFY THAT SUFFICIENT COVERAGE IS PROVIDED AT ALL FOUNDATIONS AND SHALL ADJUST FOOTING ELEVATIONS IF REQUIRED. ANY CHANGE IN FOOTING ELEVATION OF MORE THAN 8" MUST RECEIVE PRIOR APPROVAL FROM THIS ENGINEER.
 - 5. ALL FOOTINGS ARE TO BE FOUNDED AT THE LOWER OF THE ABOVE TWO PARAGRAPH REQUIREMENTS, BUT AT DEPTHS NOT LESS THAN INDICATED ON THE STRUCTURAL DRAWINGS. IF ANY FOOTING NEEDS TO BE LOWERED BELOW THE DEPTHS INDICATED ON THE STRUCTURAL DRAWINGS, NOTIFY THIS ENGINEER FOR FURTHER RECOMMENDATIONS PRIOR TO PROCEEDING WITH ANY FOUNDATION INSTALLATION.
 - 6. ALL SLABS ON GRADE ARE TO BEAR ON THE ASSEMBLIES NOTED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND ON PREPARED SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- III. MATERIALS AND EXECUTION:
- A. CONCRETE:
 - 1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301, LATEST ADOPTION.
 - 2. CONCRETE MATERIAL PROPERTIES: HIGH-RANGE WATER REDUCERS ARE NOT PERMITTED IN ANY CONCRETE USED IN FLATWORK (SLABS ON GRADE, TOPPING SLABS, ETC.). 28-DAY COMPRESSIVE STRENGTHS ARE TO BE AS FOLLOWS.
 - 3000 PSI. a) SPREAD FOOTINGS b) SLABS ON GRADE: 4000 PSI. c) CONCRETE WALLS: 4000 PSI.
 - 3. AGGREGATE SIZE: 1" MAXIMUM FOR FOOTINGS, 3/4" MAXIMUM FOR ALL OTHER CONCRETE.
 - 4. SLUMP: 4" PLUS OR MINUS 1" FOR ALL CONCRETE UNLESS HISTORICAL DATA SHOWS ACCEPTABLE PERFORMANCE AT A DIFFERENT SLUMP (SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER).

5. CAST IN PLACE CONCRETE:

- a) SPACING OF CONSTRUCTION JOINTS OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- b) PROVIDE EXTRA REINFORCING AROUND ALL OPENINGS EXCEEDING 24 INCHES SQUARE OR ROUND IN ALL SLABS AND WALLS EQUAL TO TWO #5 BARS ON FOUR SIDES (ONE BAR EACH FACE) AND EXTEND TWO FEET BEYOND THE OPENING
- c) COORDINATE CHAMFER SIZE ON ALL EXPOSED CORNERS OF CONCRETE WITH THE ARCHITECT. OMIT CHAMFER WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS OR IN THE SPECIFICATIONS. d) PROVIDE CLASS B LAP SPLICES FOR ALL REINFORCING UNLESS NOTED
- OTHERWISE e) PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS AT ALL SLAB ON
- GRADE AREAS. f) PROVIDE CORNER BARS AT ALL WALL CORNER AND TEE CONDITIONS WITH CLASS B LAPS PER ACI.
- g) FOLLOW ACI 306R REQUIREMENTS FOR COLD WEATHER CONCRETING AND 305R REQUIREMENTS FOR HOT WEATHER CONCRETING AS
- REQUIRED h) DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL ALL SLAB-ON-GRADE, FOOTING AND WALL CONCRETE HAS REACHED FULL DESIGN STRENGTH. SEE PLANS FOR ADDITIONAL REQUIREMENTS.
- SLAB ON GRADE JOINTING: ALL SLABS ON GRADE ARE TO BE JOINTED AT NO MORE THAN 10'-0" EA. WAY USING JOINTS AS PER DETAIL 1/S0.11. IN ADDITION, NO SECTION OF CONCRETE SHALL HAVE AN ASPECT RATIO OF GREATER THAN 1 1/2:1. PROVIDE (2) #4 x 4'-0" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS, AND AT ANY WALL OR PILASTER CORNERS NOT INTERSECTED BY JOINTS. SUBMIT COMPLETE JOINT LAYOUT PLAN TO THE ARCHITECT FOR PRIOR REVIEW.
- 6. CONCRETE TESTING REQUIREMENTS:
- a) ALL CONCRETE MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTER 3 OF ACI 301.
- b) OBTAIN AT LEAST ONE COMPOSITE SAMPLE FOR EACH 100 CUBIC YARDS, OR FRACTION THEREOF, OF EACH CONCRETE MIXTURE PLACED IN ANY ONF DAY
- c) CONDUCT STRENGTH TESTS OF CONCRETE DURING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PROCEDURES: (1) MOLD AND CURE THREE CYLINDERS FROM EACH SAMPLE IN ACCORDANCE WITH ASTM C 31/C 31M. RECORD ANY DEVIATIONS FROM THE ASTM REQUIREMENTS IN THE TEST REPORT.
- (2) DETERMINE SLUMP OF EACH COMPOSITE SAMPLE TAKEN. (3) DETERMINE TEMPERATURE OF EACH COMPOSITE SAMPLE TAKEN. (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C 39. TEST ONE
- SPECIMEN AT 7 DAYS FOR INFORMATION, AND TWO SPECIMENS AT 28 DAYS FOR ACCEPTANCE, UNLESS OTHERWISE SPECIFIED. THE COMPRESSIVE STRENGTH TEST RESULTS FOR ACCEPTANCE SHALL BE THE AVERAGE OF THE COMPRESSIVE STRENGTHS FROM THE TWO SPECIMENS TESTED AT 28 DAYS.
- (5) SUBMIT TEST REPORTS TO THIS ENGINEER AFTER EACH COMPRESSIVE STRENGTH TEST. REPORT SHALL INCLUDE SLUMP AND TEMPERATURE READINGS TAKEN AT TIME OF SAMPLING.
- 7. BASEPLATE GROUT: GROUT FOR USE UNDER BASE PLATES AND BEARING PLATES IS TO BE HIGH-STRENGTH, NON-METALLIC, NON-SHRINK GROUT. MINIMUM COMPRESSIVE STRENGTH AT 3 DAYS IS TO BE 3000 PSI. GROUT MAY BE INSTALLED EITHER AS A DRYPACK OR FLOWABLE MIXTURE, BUT SHALL BE DRYPACKED AT ALL EXPOSED CONDITIONS. EDGES OF GROUT AT EXPOSED CONDITIONS SHALL BE CUT AT A 15 DEGREE ANGLE FROM VERTICAL SUCH THAT THE GROUT IS THE SAME WIDTH AT THE STEEL PLATE AT THE TOP AND WIDER AT THE BOTTOM.
- 8. <u>REINFORCING STEEL</u>
- a) ALL BARS #4 AND LARGER TO BE ASTM A 615, GRADE 60. ALL #2 AND #3 BARS TO BE ASTM A 615, GRADE 40, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI-301, LATEST ADOPTION.
- b) WELDED WIRE FABRIC TO BE IN ACCORDANCE WITH ASTM A 185. c) ALL BARS INDICATED ON THE PLANS TO BE WELDED SHALL CONFORM TO ASTM A 706 (GRADE 60). d) MINIMUM CONCRETE COVER FOR REINFORCING BARS TO FACE OF
- BARS INCLUDING TIES:
- (1) CONCRETE CAST AGAINST
- AND PERMANENTLY EXPOSED TO EARTH: 3"
- (2) CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER: 2" #5 BARS AND SMALLER: 1-1/2"
- B. STRUCTURAL AND MISCELLANEOUS STEEL
 - 1. MATERIAL PROPERTIES
 - a) TO BE ASTM A 36 UNLESS NOTED OTHERWISE.
 - b) ALL WIDE-FLANGE SHAPES ARE TO BE ASTM A992 GRADE 50. c) PIPE IS TO BE ASTM A 501, Fy = 36 KSI OR ASTM A 53, TYPE E OR TYPE S,
 - GRADE B, Fy = 35 KSI. d) SQUARE OR RECTANGULAR TUBES ARE TO BE ASTM A 500, GRADE B, Fy =
 - 46 KSL e) ALL STEEL IS TO BE DETAILED, FABRICATED AND ERECTED IN
 - ACCORDANCE WITH A.I.S.C. SPECIFICATIONS, LATEST ADOPTION.
 - 2. WELDING:
 - a) FOR STRUCTURAL STEEL TO BE IN ACCORDANCE WITH A.W.S. REQUIREMENTS FOR E70XX ELECTRODES.
 - b) ALL FILLET WELDS UP TO 5/16" SHALL BE MADE AS SINGLE PASS WELDS. ALL MULTI-PASS WELDS REQUIRE VISUAL INSPECTION FOR EACH WELD PASS PRIOR TO INSTALLING SUBSEQUENT PASSES. MULTI-PASS WELDS THAT HAVE NOT BEEN PROPERLY INSPECTED WILL BE REJECTED. c) ALL WELD BACKER BARS AND/OR ERECTION AIDS ARE TO BE REMOVED AT CONDITIONS THAT ARE EXPOSED TO VIEW. BACKER BARS ARE TO BE REMOVED WHEN AWS WELD TYPE REQUIRES BACK-GOUGING. EXPOSED
 - SURFACES SHALL BE GROUND SMOOTH WITH ANY HOLES OR GOUGES FILLED AND GROUND SMOOTH.



3. BOLTS AND OTHER FASTENERS:

- a) ALL BOLTS AT STEEL TO STEEL CONNECTIONS TO BE ASTM A 325-N UNLESS NOTED OTHERWISE. ALL BOLTS ARE TO BE TIGHTENED TO A SNUG-TIGHT CONDITION UNLESS NOTED OTHERWISE.
- b) ALL BOLTS AT WOOD TO STEEL OR WOOD TO WOOD CONNECTIONS TO BE ASTM A 307 UNLESS NOTED OTHERWISE. c) TYPICAL ANCHOR RODS SHALL BE ASTM F1554, GRADE 36, U.N.O
- d) ADHESIVE ANCHORS FOR ATTACHMENT TO CONCRETE ARE TO BE ASTM F1554, GRADE 36, THREADED RODS WITH SIMPSON "SET-XP" ADHESIVE, INSTALLED IN ACCORDANCE WITH ICC ESR-2508. DRILLED HOLE DIMENSIONS ARE TO BE AS FOLLOWS IN EXISTING CONCRETE UNLESS NOTED OTHERWISE. HOLE DEPTH IS MEASURED FROM THE OUTSIDE FACE OF THE CONCRETE. ALL CONCRETE SHALL BE AT ITS SPECIFIED DESIGN STRENGTH AT THE TIME OF INSTALLATION.

| ROD DIA./BAR SIZE | DRILL BIT DIA. | HOLE DEPTI |
|-------------------|----------------|------------|
| 1/2" | 5/8" | ⊿'' |

| 1/2" | 5/8" | 4'' |
|------|-------|-----|
| 5/8" | 3/4" | 5" |
| #4 | 5/8'' | 4'' |
| #5 | 3/4" | 5" |
| | | |

4. HEADED STUD SHEAR CONNECTORS: TO BE ASTM A 108. ALL HEADED STUDS ARE TO BE BY "NELSON STUD WELDING" OR APPROVED EQUAL AND ARE TO BE FLASH WELDED TO THE SUPPORTING STEEL USING AN ELECTRIC ARC WELDING PROCESS.

C. <u>WOOD:</u>

- 1. DIMENSIONAL LUMBER: ALL TO BE GRADE STAMPED PER W.C.L.B. RULES.
- a) ALL STUDS, JOISTS, BEAMS, PLATES, HEADERS AND OTHER LUMBER TO BE D.FIR/LARCH #2 UNLESS OTHERWISE NOTED. b) 4x, 6x AND 8x POSTS TO BE D.FIR/LARCH NO.1
- c) ALL WOOD PLATES IN CONTACT WITH STEM WALLS OR SLABS ON GRADE ARE TO BE PRESSURE TREATED.
- 2. RIMBOARD: TO BE 1-1/2" THICK LSL OR LVL RIMBOARD BY REDBUILT OR OTHER PRE-APPROVED EQUAL WITH DEPTH AS INDICATED. USE 2.0E REDLAM LVL WHERE 3-1/2" THICKNESS IS INDICATED.
- 3. <u>GLU-LAMS:</u>
- a) SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AITC A190.1,
- CURRENT EDITION b) ALL MEMBERS SHALL BE GRADE-STAMPED WITH AN AITC QUALITY MARK, AND SHALL MEET THE REQUIREMENTS OF D.FIR/LARCH COMBINATION 24F-V8 FOR MULTI-SPANS AND CANTILEVERED MEMBERS, AND D.FIR/LARCH COMBINATION 24F-V4 FOR SINGLE SPAN MEMBERS.
- c) ALL GLULAM MEMBERS SHALL BE CONSTRUCTED WITH EXTERIOR-GRADE ADHESIVES.
- 4. <u>SHEATHING:</u>
- a) ALL SHEATHING TO BE APA RATED PLYWOOD APPROPRIATE TO THE SPAN LENGTHS AND DIRECTIONS INDICATED ON THE DRAWINGS. SHEATHING LAY-UP TO BE WITH FACE GRAIN OR STRONG DIRECTION PERPENDICULAR TO SUPPORTS EXCEPT WHERE SPECIFICALLY SHOWN OTHERWISE. ALL SINGLE SPAN CONDITIONS ARE TO HAVE 2X4
- BLOCKING ACROSS THE SPAN AT 24" O.C. MAX. b) ROOF SHEATHING TO BE 3/4" PERFORMANCE CATEGORY, APA RATED SHEATHING, EXPOSURE 1, WITH A SPAN RATING OF 48/24. NAIL WITH 10d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 10d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- c) FLOOR SHEATHING AT TERRACES TO BE 1-1/8" PERFORMANCE CATEGORY, T&G, APA RATED 48" O.C., STURDI-I-FLOOR SHEATHING, EXPOSURE 1. NAIL WITH 10d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 10d NAILS AT 10" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- d) ALL OTHER FLOOR SHEATHING TO BE WARMBOARD AS DESCRIBED BELOW. \sim
- d) ALL ROOF AND TERRACE FLOOR SHEATHING WITHIN 4 FEET OF THE DEMISING WALLS IS TO BE FIRE-RETARDENT-TREATED SHEATHING. COORDINATE EXACT REQUIREMENTS WITH THE ARCHITECT. RUNNING BOND LAYUP OF SHEATHING IS TO BE MAINTAINED AS DESCRIBED BELOW WITH FIRE-RETARDENT-TREATED SHEATHING EXTENDED BEYOND THE 4 FOOT MINIMUM REQUIREMENT WHERE REQUIRED.
- e) ALL ROOF AND FLOOR SHEATHING IS TO BE LAID UP IN RUNNING BOND WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS. ROTATE PANEL DIRECTION AS REQUIRED TO REFLECT FRAMING DIRECTION CHANGES. f) IN ADDITION TO THE NAILING REQUIREMENTS INDICATED, ALL FLOOR SHEATHING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "APA GLUED FLOOR SYSTEM" AS DESCRIBED IN APA PUBLICATION E30, "ENGINEERED WOOD CONSTRUCTION GUIDE" AVAILABLE AT
- http://www.apawood.org/. ALL PANEL EDGES AND PANEL CONTACT WITH SUPPORTS SHALL BE GLUED AS DESCRIBED. g) FOR ALL WALLS OR PORTIONS OF WALLS NOTED TO BE SHEARWALLS, TO BE 1/2" OR 5/8" PERFORMANCE CATEGORY (THICKNESS AS INDICATED), APA RATED SHEATHING WITH 32/16 SPAN RATING, EXPOSURE 1, INSTALLED ON ONE OR TWO SIDES OF THE WALL AS
- INDICATED. FULLY BLOCK AND NAIL ALL PANEL EDGES. NAIL AS INDICATED IN THE SHEAR WALL SCHEDULE.
- 5. WARMBOARD SHEATHING:
- a) TO BE 1-1/8" THICK WARMBOARD-S RADIANT FLOOR HEATING PANELS BY WARMBOARD INC. MANUFACTURED AND INSTALLED IN ACCORDANCE WITH ICC ESR-1421.
- b) ALL SHEATHING IS TO BE LAID UP IN RUNNING BOND WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS. ROTATE PANEL DIRECTION AS REQUIRED TO REFLECT FRAMING DIRECTION CHANGES.
- c) AT ALL SHEATHING EAST OF GRID C, BLOCK AND NAIL ALL PANEL EDGES WITH 3" NOMINAL BLOCKING. NAIL WITH 10d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 10d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- d) WHERE PANEL EDGES ABUT ON I-JOISTS AND OTHER FRAMING, STAGGER NAILS ON OPPOSING PANEL EDGES AND MAINTAIN MINIMUM 3/8 EDGE DISTANCE TO PANEL EDGE AND TO EDGE OF JOIST CHORD BELOW

sheathing.

- e) IN ADDITION TO THE NAILING REQUIREMENTS INDICATION WARMBOARD FLOOR SHEATHING CONSTRUCTION S ACCORDANCE WITH THE "APA GLUED FLOOR SYSTE APA PUBLICATION E30, "ENGINEERED WOOD CONST GUIDE" AVAILABLE AT http://www.apawood.org/. AI AND PANEL CONTACT WITH SUPPORTS SHALL BE GLU
- 6. PLYWOOD WEB I JOISTS:
- a) TO BE DETAILED AND FABRICATED BY REDBUILT OR PRE-APPROVED EQUAL, AND ARE TO HAVE THE APPROVAL OF ICC. b) JOISTS HAVE BEEN SIZED BY THIS ENGINEER AND MANUFACTURER CALCULATIONS ARE NOT REQUIRED IF THE SPECIFIC PRODUCTS
- INDICATED ARE SUPPLIED. c) IF AN ALTERNATE MANUFACTURER'S PRODUCT IS TO BE SUBMITTED FOR REVIEW, FURNISH MANUFACTURER'S PUBLISHED TECHNICAL INFO, AND A TABLE THAT SHOWS THAT THE PROPOSED PRODUCT VALUES FOR EACH JOIST TYPE MEET OR EXCEED THOSE FOR THE REDBUILT PRODUCT SPECIFIED. THE TABLE SHALL INCLUDE THE FOLLOWING ITEMS FOR EACH REDBUILT AND PROPOSED ALTERNATE JOIST TYPE.

(1) UNFACTORED RESISTING MOMENT (2) UNFACOTRED RESISTING SHEAR

(3) MOMENT OF INERTIA OF BARE JOIST PRODUCT. SUBMITTALS THAT DO NOT INCLUDE THE TABLE AS DESCRIBED WILL BE

- REJECTED. d) LUMBER USED IN THE JOIST TOP FLANGES IS TO BE OF A WOOD SPECIES HAVING A SPECIFIC GRAVITY OF NOT LESS THAN 0.5. e) DOUBLE JOISTS ARE TO BE CONNECTED TOGETHER PER
- MANUFACTURER'S TYPICAL DETAIL. INCLUDE THIS DETAIL ON THE SHOP DRAWING SUBMITTAL.
- SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.
- 7. PREFABRICATED WOOD ROOF TRUSSES:
- a) TO BE "GANG-NAIL" OR "ALPINE" OR APPROVED EQUAL DESIGNED, DETAILED AND FABRICATED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND THE TRUSS PLATE INSTITUTE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION ", LATEST ADOPTIONS.
- b) **DESIGN REQUIREMENTS**:
- (1) TRUSS TOP CHORDS ARE TO BE DESIGNED FOR THE SNOW LOADS INDICATED ABOVE AND FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 12 PSF.
- (2) TRUSS BOTTOM CHORDS ARE TO BE DESIGNED FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 8 PSF.
- (3) THE MAXIMUM ALLOWABLE STRESS INCREASE FOR DURATION OF Load is to be 15%.
- (4) TRUSS DEFLECTION TO BE LIMITED TO L/180 FOR TOTAL LOAD AND L/240 FOR LIVE LOAD.
- (5) TRUSS DEPTH TO BE 24" WITH BEARING CONDITIONS AS SHOWN EXCEPT WHERE NOTED OTHERWISE. (6) PROVIDE CONTINUOUS TRUSS BLOCKING PANELS AS DETAILED WITH
- HORIZONTAL SEISMIC LOAD TRANSFER CAPACITY NOTED ON THE DETAILS.
- c) <u>SUBMITTALS:</u>
- (1) COMPLETE DESIGN CALCULATIONS SHALL BE FURNISHED TO THE ENGINEER FOR EACH TRUSS. CALCULATIONS MUST BE PREPARED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF UTAH. UNSEALED SUBMITTALS WILL BE REJECTED.
- (2) SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. (3) THE TRUSS MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE TRUSS QUALITY IS IN CONFORMANCE WITH THE QUALITY
- CRITERIA DESCRIBED IN ANSI/TPI-1, LATEST ADOPTION, PUBLISHED BY THE TRUSS PLATE INSTITUTE. (4) THE TRUSS MANUFACTURER SHALL HAVE A QUALITY ASSURANCE PROGRAM IN ACCORDANCE WITH CHAPTER 3 OF ANSI/TPI-1,

d) <u>GENERAL:</u>

COMPLIANCE.

- (1) ALL TRUSSES AND RELATED BRACING SHALL BE SIZED AND DETAILED
- TO FIT THE DIMENSIONS AND LOADS INDICATED ON THE PLANS.
- (2) LUMBER USED FOR CHORDS AND WEBS SHALL HAVE A MAXIMUM MOISTURE CONTENT BELOW 19% AT THE TIME OF FABRICATION. (3) LUMBER USED FOR CHORDS AND WEBS THAT ARE TO RECEIVE PLYWOOD SHEATHING ARE TO BE OF WOOD SPECIES HAVING A
- SPECIFIC GRAVITY OF NOT LESS THAN 0.5. (4) ALL TRUSS MEMBERS SHALL MEET OR EXCEED VISUAL REQUIREMENTS FOR NO. 2 GRADE. NO WANE SHALL BE PERMITTED IN THE
- CONNECTION AREA. (5) DESIGN LATERAL RESISTANCE VALUES FOR TRUSS PLATES AND METAL
- WEBS SHALL BE 80% OF TPI ALLOWABLE LOAD VALUES. (6) THE HANKINSON FORMULA OR STRAIGHT LINE INTERPOLATION SHALL BE USED TO DETERMINE LATERAL RESISTANCE VALUES FOR PLATE TO WOOD GRAIN ANGLES BETWEEN 0 AND 90 DEGREES.
- (7) TRUSS PLATES SHALL BE SIZED SO THAT THEY CAN BE CENTERED BOTH HORIZONTALLY AND VERTICALLY ON THE JOINT UNLESS THE CHORD
- DEPTH OR THE TRUSS GEOMETRY PROHIBITS SUCH PLACEMENT. (8) EVERY TRUSS PLATE SHALL BE FULLY EMBEDDED INTO THE
- UNDERLYING WOOD ACROSS THE ENTIRE CONTACT AREA. (9) ALL TRUSSES SHALL BE ERECTED AND BRACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH TRUSS PLATE INSTITUTE RECOMMENDATIONS.
- 8. WOOD NAILING SCHEDULE (U.N.O. ON PLANS):
- a) JOIST TO SILL OR GIRDER, TOENAIL 3-8d
- b) SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 2-16d
- d) 2x STUD TO PLATE, TOENAIL 4-8d or FACE NAIL 2-16d
- e) 3x STUD TO 3x PLATE, TOENAIL 4-10d OR FACE NAIL 3-20d f) DOUBLE STUDS, FACE NAIL 16d @ 24" O.C.
- c) TOP PLATE TO STUD, END NAIL 2-16d

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| JED AS DESCRIBED. | |
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LATEST EDITION, AND PROVIDE WRITTEN CERTIFICATION OF

- g) DOUBLED TOP PLATES, FACE NAIL 16d @ 16" O.C. h) TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL 2-16d
- CONTINUOUS HEADER TO STUD, TOENAIL 4-8d
- BUILT UP CORNER STUDS, 16d @ 24" O.C.
- k) BUILT UP GIRDERS AND BEAMS, 20d @ 32"O.C. AT TOP AND BOTTOM AND STAGGERED 2-20d AT EACH END & SPLICE
- I) RIMBOARD TO I-JOIST, 10d FACE NAIL TO T&B JOIST CHORD

9. LAG SCREW INSTALLATION:

- a) ALL LAG SCREWS REQUIRE PRE-DRILLING OF HOLES.
- b) LAG SCREWS SHALL BE INSTALLED INTO PROPERLY SIZED LEAD AND CLEARANCE HOLES PER N.F.P.A. "NATIONAL DESIGN SPECIFICATION" REQUIREMENTS AS FOLLOWS.
- c) THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
- d) THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40 TO 70 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
- e) THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. f) SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE

10. WOOD CONNECTORS

SCREW.

- a) UNLESS NOTED OTHERWISE, ALL NAILS ARE TO BE COMMON NAILS PER ASTM F1667 WITH ASTM A153 HOT-DIP GALVANIZED FINISH. NAILS IN CONTACT WITH TREATED LUMBER ARE TO BE G185 HOT-DIP GALVANIZED OR STAINLESS STEEL
- b) LAG SCREWS SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM A307, LOW-CARBON STEEL EXTERNALLY AND INTERNALLY THREADED STANDARD FASTENERS.
- c) ALL LUMBER CONNECTORS SPECIFIED AS "SIMPSON" TYPE TO BE MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY, INC." OR PRE-APPROVED EQUAL. INSTALL CONNECTORS USING MAXIMUM SIZE AND NUMBER OF FASTENERS PER MANUFACTURER'S LITERATURE UNLESS NOTED OTHERWISE. INSTALL SDS SCREWS PER MANUFACTURER'S RECOMMENDATIONS.

D. SHOP DRAWINGS:

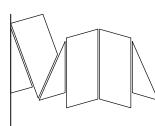
- 1. SHOP DRAWINGS ARE TO BE SUBMITTED FOR ALL STRUCTURAL ITEMS AND AS REQUIRED BY THE SPECIFICATIONS. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- 2. CONTRACTOR SHALL THOROUGHLY REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE DESIGN TEAM AND SHALL INCLUDE HIS REVIEW STAMP ON THE SUBMITTAL. ALL INFORMATION NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE SO NOTED ON THE SUBMITTAL BY THE CONTRACTOR DURING HIS REVIEW. IF DEFICIENCIES ARE SUBSTANTIAL, THE SUBMITTAL SHALL BE RETURNED TO THE SUBCONTRACTOR FOR REVISIONS
- PRIOR TO SUBMITTING IT TO THE DESIGN TEAM. 3. ANY CHANGE FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY NOTED BY THE SUBMITTING PARTY WITH CLOUDS AND SPECIFIC REQUEST FOR APPROVAL. ANY CHANGES NOT NOTED AND CLOUDED SHALL BE CONSIDERED AS NOT APPROVED UNLESS SPECIFICALLY NOTED OTHERWISE
- BY THIS ENGINEER. THE SHOP DRAWING STAMP SHALL NOT BE CONSIDERED TO BE IMPLIED APPROVAL OF ANY CHANGES. 4. SHOP DRAWINGS SHALL NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED AND/OR SHOWN INCORRECTLY AND NOT NOTED BY THE REVIEWER ARE NOT TO BE CONSIDERED TO BE CHANGES TO THE CONTRACT DOCUMENTS. SHOP DRAWING REVIEW IS INTENDED AS AN AID TO THE
- CONTRACTOR IN HIS OBTAINING CORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ITEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 5. ANY ENGINEERING DESIGN PERFORMED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF UTAH. COMPLETE DESIGN CALCULATIONS FOR EACH ITEM SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER. THE ADEQUACY AND ACCURACY OF THE DESIGNS AND LAYOUTS PERFORMED BY OTHERS RESTS WITH THE DESIGNING AND/OR SUBMITTING PARTY

STRUCTURAL STEEL ERECTOR AND FABRICATOR CERTIFICATION REQUIREMENTS:

- 1. THE STEEL FABRICATOR FOR THIS PROJECT SHALL HAVE AISC BUILDING STANDARD [STD] CERTIFICATION. EVIDENCE OF CERTIFICATION SHALL BE SUBMITTED TO THIS ENGINEER FOR REVIEW, AND APPROVAL SHALL BE OBTAINED PRIOR TO PROCEEDING WITH ANY DETAILING OF STEEL OR FABRICATION.
- 2. THE STEEL ERECTOR FOR THIS PROJECT SHALL HAVE AISC CATEGORY "CSE" CERTIFICATION. AN ALTERNATE CERTIFICATION WITH ANOTHER RECOGNIZED AUTHORITY MAY BE SUBMITTED FOR REVIEW AND APPROVAL ALONG WITH EVIDENCE OF THE SUCCESSFUL COMPLETION OF NOT LESS THAN THREE PROJECTS OF SIMILAR SCOPE IN THE PAST FIVE YEARS. ACCEPTABILITY OF THE ALTERNATE CERTIFICATION AND EXPERIENCE WILL BE DETERMINED BY THIS ENGINEER. NO STEEL ERECTION SHALL PROCEED PRIOR TO RECEIVING APPROVAL.

F. SPECIAL INSPECTION:

- 1. ALL SPECIAL STRUCTURAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 17 AND AS DESCRIBED IN THE STATEMENT OF SPECIAL INSPECTIONS (SOSI) ON SHEET S0.13. THE PROJECT OWNER OR HIS AGENT SHALL ENGAGE A QUALIFIED INSPECTION AGENCY OR AGENCIES TO PERFORM THE INSPECTIONS THAT ARE LISTED. ALL STRUCTURAL INSPECTORS TO BE ENGAGED SHALL BE COMPETENT AND HAVE ADEQUATE TRAINING OR EXPERIENCE AS REQUIRED BY THE SOSI, AND SHALL BE PRE-APPROVED AS INDICATED.
- 2. STRUCTURAL INSPECTORS OF ALL STRUCTURAL WELDING SHALL BE WELDING INSPECTORS (WI) OR SENIOR WELDING INSPECTORS (SWI) AS DEFINED IN AWS B5.1, OR SHALL BE QUALIFIED UNDER THE PROVISIONS OF AWS D1.1, SECTION 6.1.4. WRITTEN EVIDENCE OF THESE QUALIFICATIONS SHALL BE SUBMITTED TO THIS ENGINEER FOR PRIOR REVIEW AND APPROVAL.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND MONITORING OF ALL SPECIAL INSPECTIONS. REASONABLE ADVANCE NOTICE SHALL BE GIVEN TO THE SPECIAL INSPECTOR, STRUCTURAL SPECIAL INSPECTION COORDINATOR, AND/OR THE INSPECTION AGENCY. NO PERTINENT WORK SHALL PROCEED OR BE COVERED UP BY OTHER WORK UNTIL SPECIAL INSPECTION HAS TAKEN PLACE AND HAS INDICATED COMPLIANCE. COPIES OF ALL WRITTEN SPECIAL INSPECTION REPORTS SHALL BE PROMPTLY FORWARDED TO THIS ENGINEER BY THE INSPECTING AGENCY.
- G. DEFERRED SUBMITTALS: IN ACCORDANCE WITH IBC SECTION 107.3.4.1, THE ALCULATION AND SHOP DRAWING SUBMITTAL FOR THE FOLLOWING LISTED ITEMS SHALL BE DEFERRED UNTIL AFTER ISSUANCE OF THE BUILDING PERMIT BUT PRIOR TO THEIR INSTALLATION. THE SUBMITTAL IS TO BE REVIEWED BY THIS ENGINEER. AFTER THE APPROVAL HAS BEEN PROVIDED BY THIS ENGINEER, THE CONTRACTOR SHALL FORWARD COPIES OF THE APPROVED SUBMITTAL TO WEBER COUNTY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE ITEM.
 - 1. PREFABRICATED WOOD ROOF TRUSSES



STUDIO MA

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sma project no. 16-101

sma project name POWDERCAT

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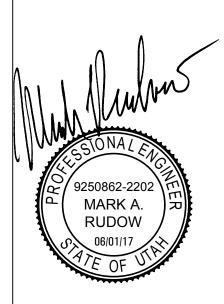
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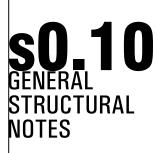
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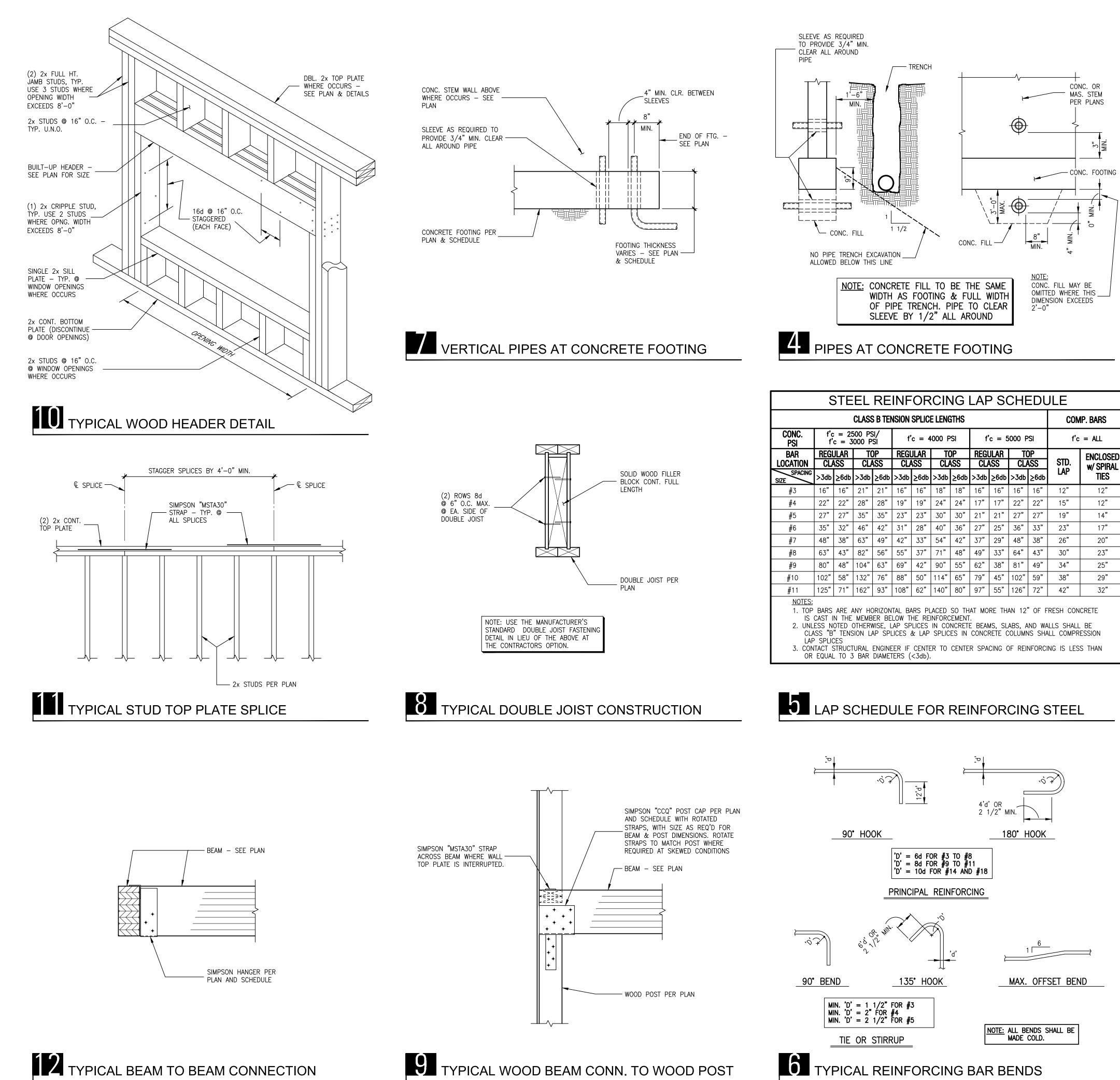




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| STEEL REINFORCING LAP SCHEDULE | | | | | | | | | | | | | | |
|--------------------------------------|---|--------------------|------|-----------|------|-------------|-------|-----------|------|-------------|------|-----------|------|-----------------------|
| | CLASS B TENSION SPLICE LENGTHS COMP. BARS | | | | | | | | | | | | | |
| CONC. PSI | | | | | | f'c | = ALL | | | | | | | |
| BAR LOCATION | | <u>JLAR</u> Ass | | DP ASS | | JLAR Ass | | DP ASS | | JLAR Ass | |)p ASS | STD. | ENCLOSED W/ SPIRAL |
| SPACING SIZE | >3db | ≥6db | >3db | ≥6db | >3db | ≥6db | >3db | ≥6db | >3db | ≥6db | >3db | ≥6db | LAP | TIES |
| #3 | 16" | 16" | 21" | 21" | 16" | 16" | 18" | 18" | 16" | 16" | 16" | 16" | 12" | 12" |
| #4 | 22" | 22" | 28" | 28" | 19" | 19" | 24" | 24" | 17" | 17" | 22" | 22" | 15" | 12" |
| # 5 | 27" | 27" | 35" | 35" | 23" | 23" | 30" | 30" | 21" | 21" | 27" | 27" | 19" | 14" |
| #6 | 35" | 32" | 46" | 42" | 31" | 28" | 40" | 36" | 27" | 25" | 36" | 33" | 23" | 17" |
| #7 | 48" | 38" | 63" | 49" | 42" | 33" | 54" | 42" | 37" | 29" | 48" | 38" | 26" | 20" |
| #8 | 63" | 43" | 82" | 56" | 55" | 37" | 71" | 48" | 49" | 33" | 64" | 43" | 30" | 23" |
| #9 | 80" | 48" | 104" | 63" | 69" | 42" | 90" | 55" | 62" | 38" | 81" | 49" | 34" | 25" |
| # 10 | 102" | 58" | 132" | 76" | 88" | 50" | 114" | 65" | 79" | 45" | 102" | 59" | 38" | 29" |
| #11 | 125" | 71" | 162" | 93" | 108" | 62" | 140" | 80" | 97" | 55" | 126" | 72" | 42" | 32" |
| IS 2. UNL CLA LAF 3. CON | | | | | | | | | | | | | | |



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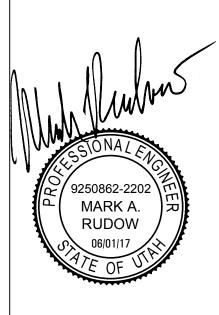
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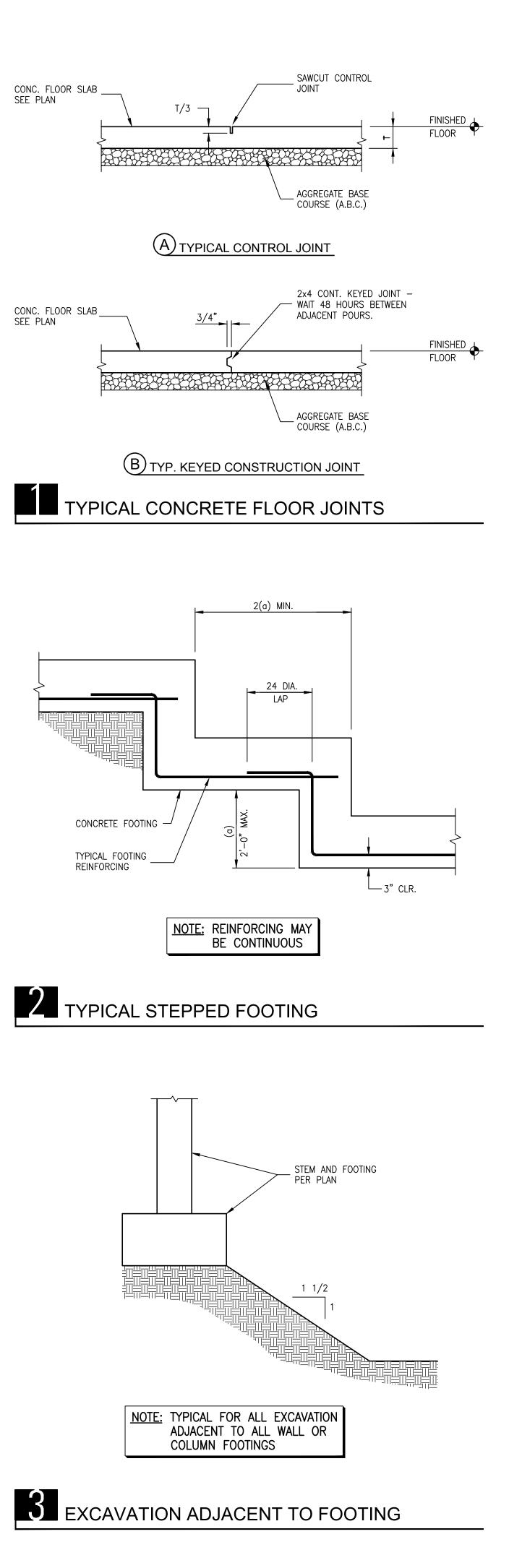
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VARIES scale



| | | TOP FLANG | e hanger | | | FACE MOUN | T HANGER | |
|------------------------|------------|---|------------|--|--------------|---------------------------------------|----------|---------------------------------------|
| MEMBER SIZE | | CULAR CONDITION | | D CONDITION | - | ULAR CONDITION | | ED CONDITION |
| | TYPE | NAILING REQUIREMENTS | TYPE | NAILING REQUIREMENTS | TYPE | NAILING REQUIREMENTS | TYPE | NAILING REQUIREMENT |
| 2x8 | N/A | N/A | N/A | N/A | LB28 | (4)16d FACE (2)10d x 1-1/2 JOIST | N/A | N/A |
| 6x8 | N/A | N/A | N/A | N/A | HUC68 | (8)16d FACE (4)16d JOIST | N/A | N/A |
| 2x10 @ ROOF EYEBROW | N/A | N/A | N/A | N/A | LSSU210 | (10)10d FACE (7)10d x 1-1/2 JOIST | LSSU210 | (9)10d FACE (7)10d x 1-1/2 JOIST |
| 3x10 @ ROOF EYEBROW | N/A | N/A | N/A | N/A | LSSUH310 | (18)16d FACE (12)10d x 1-1/2 JOIST | LSSUH310 | (14)16d FACE (12)10d x 1-1/2 JOIST |
| (4)2x10 | N/A | N/A | N/A | N/A | HUC88 | (10)16d FACE (4)16d JOIST | N/A | N/A |
| 4x10 | HU410TF | (14)16d TOP (6)10d JOIST | HU410TF | (14)16d TOP (6)10d JOIST | N/A | N/A | N/A | N/A |
| 6x8 | HU68TF | (12)16d TOP (4)10d JOIST | N/A | N/A | HUC68 @ POST | (10)16d x 2-1/2 FACE (4)10d JOIST | N/A | N/A |
| 1/8x9 GLB @ RF EYEBROW | N/A | N/A | N/A | N/A | LSSU410 | (18)16d FACE (12)10d x 1-1/2 JOIST | LSSU410 | (14)16d FACE (12)10d x 1-1/2 JOIST |
| 14" RED-I45 | ITS1.81/14 | (4)10d x 1.5" TOP (2)10d x 1.5" FACE | LBV1.81/14 | (6)16d x 2.5" TOP (4)16d x 2.5" FACE (2)10d x 1.5" JOIST | MIU1.81/14 | (22)16d FACE (2)10d x 1.5" JOIST | N/A | N/A |
| (2) 14" RED-145 | N/A | N/A | N/A | N/A | MIU3.56/14 | (22)16d FACE (2)10d x 1.5" JOIST | N/A | N/A |
| 3 1/8x13 1/2 GLB | GLT3 | (10)N54A HEADER (6)N54A JOIST | N/A | N/A | N/A | N/A | N/A | N/A |

NOTES: 1. PROVIDE WEB STIFFENERS BOTH SIDES OF ALL RED-I JOISTS AT HANGERS. THE COND

PROVIDE PERPENDICULAR OR SKEWED HANGERS AS REQUIRED BY THE CONDITIONS AT EACH SPECIFIC HANGER LOCATION. COORDINATE SKEW ANGLE REQUIRED AT EACH LOCATION WITH THE PLAN DIMENSIONS, GEOMETRY, AND JOIST LAYOUT ..

3. "TOP" DENOTES NAILING INTO TOP OF SUPPORTING MEMBER THRU HANGER TOP FLANGE. 4. "FACE" DENOTES NAILING INTO SIDE OF SUPPORTING MEMBER THRU HANGER SIDE FLANGES.

5. "JOIST" DENOTES NAILING INTO SIDES OF SUPPORTED JOIST THRU SIDES OF HANGER.

6. "HEADER" DENOTES COMBINATION OF "FACE" AND "TOP" PER MANUFACTURER REQUIREMENTS.

HANGERS INDICATED ARE TO BE BY SIMPSON STRONG-TIE. ALTERNATE HANGER MANUFACTURER'S WILL BE CONSIDERED UPON SUBMITTAL OF ALTERNATE HANGER MANUFACTURER'S LOAD AND NAILING LITERATURE, ALONG WITH A WRITTEN COMPARISON OF THE PROPOSED HANGER AND NAILING AT EACH LOCATION, AND THE RESULTING PROPOSED HANGER UPLIFT AND DOWNWARD CAPACITY AS COMPARED TO THE CAPACITY OF THE SPECIFIED HANGER AND NAILING. SUBMITTALS THAT DO NOT HAVE ALL OF THE INDICATED INFORMATION WILL BE REJECTED. ALTERNATE MANUFACTURER'S PRODUCTS SHOULD NOT BE USED PRIOR TO RECEIVING ENGINEER APPROVAL OF THE SUBMITTED ALTERNATES. 8. SEE DETAIL 8/S0.11 FOR TYPICAL DOUBLE JOIST CONSTRUCTION.

9. PROVIDE SOLID WOOD SHIM EA. SIDE OF JOIST WHERE HANGER WIDTH IS WIDER THAN JOIST WIDTH WHERE REQUIRED. 10. ALL HANGERS TO HAVE SLOPED SEATS AS REQUIRED TO MATCH JOIST SLOPE.

| | POST SCHEDULE | | | | | | |
|------|---------------------------------------|--|--|--|--|--|--|
| MARK | SIZE | BASE CONNECTION | | | | | |
| P1 | 4x4 D.FIR #1 | OPTION 1: (4)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (2)16d TOENAILS TO SILL PLATE EA. SIDE OF POST. | | | | | |
| P2 | 6x8 D.FIR # 1 | OPTION 1: (4)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (2)16d TOENAILS TO SILL PLATE EA. SIDE OF POST. | | | | | |
| P3 | 8x8 D.FIR # 1 | OPTION 1: (6)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (3)16d TOENAILS TO SILL PLATE EA. SIDE OF POST. | | | | | |
| P4 | BUILT–UP POST PER SHEARWALL ELEV's | SEE DETAIL 6/S2.12 | | | | | |
| P5 | 6x6 D.FIR # 1 | OPTION 1: (6)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (3)16d TOENAILS TO SILL PLATE EA. SIDE OF POST. | | | | | |

NOTES:

1. ALL POSTS CONTINUE FULL HEIGHT ABOVE LEVEL WHERE CALLED OUT. SPLICE AT FLOOR LEVELS PER ELEVATIONS AND DETAILS.

2. SEE WALL ELEVATIONS FOR POSTS NOT CALLED OUT ON PLAN. 3. WHERE 6x8 AND 8x8 POSTS OCCUR IN WALLS, RIP POST WIDTH TO MATCH WALL STUD WIDTH.

| WALL FOOTING SCHEDULE | | | | | | |
|-----------------------|-------------------|--|----------------|--|--|--|
| MARK | SIZE | REINFORCING | REMARKS | | | |
| WF1 | 1'-8" x 12" THICK | (2) # 5 CONT. | TYPICAL U.N.O. | | | |
| WF2 | 2'0" x 12" THICK | (2) # 5 CONT. | | | | |
| WF3 | 3'-0" x 12" THICK | (3) #5 LONGIT. CONT. #5 © 16" O.C. TRANS. | | | | |
| WF4 | 4'-0" x 12" THICK | (4) #5 LONGIT. CONT. #5 @ 16" O.C. TRANS. | | | | |
| WF5 | 5'-0" x 12" THICK | (5) #5 LONGIT. CONT. #5 @ 14" O.C. TRANS. | | | | |
| WF6 | 6'-0" x 12" THICK | (5) #6 LONGIT. CONT. #6 @ 14" O.C. TRANS. | | | | |
| WF7 | 5'-0" x 12" THICK | (5) #5 LONGIT. CONT. #5 ◎ 10" O.C. TRANS. | | | | |
| WF8 | 4'-0" x 12" THICK | (4) #5 LONGIT. CONT. #5 ◎ 10" O.C. TRANS. | | | | |

| | SHEARWALL SCHEDULE | | | | | | |
|------|---|---|--|--|--|--|--|
| Г | SHEATHING AND ATTACHMENT MA | RK | | | | | |
| Ĺ | DENOTES SHEARWALL | | | | | | |
| MARK | SHEATHING & ATTACHMENT | TYPICAL SILL PLATE ATTACHMENT | | | | | |
| SW1 | 1/2" NOMINAL RATED SHEATHING PER G.S.N. ONE SIDE OF WALL WITH 8d NAILS @ 6" O.C. @ PANEL EDGES AND 8d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. | 1/2"ø J-BOLT ANCHORS WITH 1-1/2" HOOK AND MIN. 6" EMBEDMENT, SPACED AT 32" O.C. MAX. | | | | | |
| SW2 | 5/8" NOMINAL RATED SHEATHING PER G.S.N. AT OUTSIDE FACE OF WALL WITH 10d NAILS @ 4" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. | 1/2"ø J-BOLT ANCHORS WITH 1-1/2" HOOK AND MIN. 6" EMBEDMENT, SPACED AT 16" O.C. MAX. | | | | | |
| SW3 | 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS © 6" O.C. © PANEL EDGES AND 10d NAILS © 12" O.C. © INTERMEDIATE SUPPORTS. | 1/2"ø J-BOLT ANCHORS WITH 1-1/2" HOOK AND MIN. 6" EMBEDMENT, SPACED AT 16" O.C. MAX. | | | | | |
| SW4 | 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 3" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. | SEE SHEAR WALL ELEVATIONS | | | | | |
| SW5 | 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 2" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. | SEE SHEAR WALL ELEVATIONS | | | | | |
| | | | | | | | |

SHEARWALL NOTES:

1. ALL INTERIOR DEMISING WALLS ARE TO HAVE SHEATHING TYPE "SW1" WITH THE SHEATHING

LOCATED ON THE UNIT SIDE OF THE WALL. 2. WALLS ON GRIDS "1", "4", "5", "9", "10" AND "13" ARE TO HAVE SHEATHING TYPE "SW3".

3. FAR SOUTH WALLS OF ALL UNITS (APPROX. GRID "D") ARE TO HAVE SHEATHING TYPE "SW2". 4. SEE WALL ELEVATIONS FOR SHEATHING REQUIREMENTS AT WALLS ON GRIDS "A" AND "C".

5. EXTEND SHEATHING NOTED FOR THE FULL LENGTH OF THE WALL SHOWN ON THE PLANS.

SHEATHING TYPE INDICATED IS TO OCCUR FULL HEIGHT FROM THE BASE OF THE WALL TO THE ROOF OR FLOOR LEVEL AT THE TOP OF THE WALL.

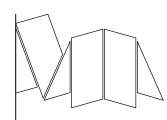
EDGE NAIL SPACING APPLIES TO FASTENING AT SHEATHING PANEL EDGES AT ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.

8. ALL PANEL EDGES ARE TO BE BLOCKED AND NAILED AT ALL SHEAR WALLS.

9. ALL STUDS, BLOCKING, AND TOP AND BOTTOM PLATES AT WALL TYPES "SW4" AND "SW5" ARE TO BE 3x MATERIAL WITH WIDTH EQUAL TO THE WALL WIDTH AT THE LOCATION NOTED. IN ADDITION, ALL NAILING AT ABUTTING PANEL EDGES SHALL BE STAGGERED.

INDICATED ON THE PLANS OR IN THESE NOTES. . SEE ARCHITECTURAL DRAWINGS FOR SHEATHING REQUIREMENTS AT ALL WALLS THAT ARE NOT

NOTED AS SHEAR WALLS OR OTHERWISE INDICATED IN THIS SCHEDULE. 12. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



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9250862-2202 MARK A. RUDOW 06/01/17



NO SCALE scale

 $\underline{\land}$

| VERIFICATION AND INSPECTION | | |
|--|------------------|------|
| 1. Inspection of welding: | | |
| a. Reinforcing steel: | | |
| Verification of weldability of reinforcing steel other than ASTM A706. | | |
| Reinforcing steel resisting flexural and axia intermediate and special moment frames, elements of special structural walls of con reinforcement. | and bounda | |
| For SI: 1 inch = 25.4 mm. a. Where applicable, see also Section 1705.11, Special inspections for a | seismic resistar | nce. |
| 3 INSPECTION RE STEEL CONSTR 2012 IBC, Table 1705.2.2 | UCT | R |
| REQUIRED VE | | ND |
| VERIFICATION AND INSPECTION | CONTINUOU | s |
| Inspection of reinforcing steel and placement. | | |
| 2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b. | | |
| Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used. | | |
| Inspection of anchors post-installed in hardened concrete members^a. | | |
| 5. Verifying use of required design mix. | | |
| 6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | х | |
| Inspection of concrete placement for proper application techniques | Х | |
| Inspection for maintenance of specified curing tempaerature and techniques. | | |
| Inspect formwork for shape, location and dimensions of the concrete member being formed. | | |
| a. Specific requirements for special inspection shall be included other qualification procedures. INSPECTION RE FOR CONCRET 2012 IBC, Table 1705.3 | EQUI | R |
| VERIFICATION AND INSPECTION TASK | | |
| 1. Verify materials below shallow foundations are ade | equate to | |

| TASK |
|---|
| Verify materials below shallow foundations are ad achieve the design bearing capacity. |
| Verify excavations are extended to proper depth a reached proper material. |
| Perform classification and testing of compacted fil |
| Verify use of proper materials, densities and lift th during placement and compaction of compacted f |
| Prior to placement of compacted fill, observe subs verify that site has been prepared properly. |



2012 IBC, Table 1705.6



| | CONTI | NUOUS | PERIODIC | REFERENCED STANDARD ^a |
|---|-------|-------|----------|-------------------------------------|
| | | | | |
| | | | | |
| | | | х | AWS D1.4 |
| ial forces in , and boundary ncrete and shear | | x | | ACI 318: Section 3.5.2 |

REQUIREMENTS AT OTHER TRUCTION ELEMENTS

| | | TABLE 1705.3 | | |
|------------------|---------------------|--------------------|--|---------------------------------|
| ED VE | ERIFICATION AND | | F CONCRETE CONSTRUCTION | 1 |
| | CONTINUOUS | PERIODIC | REFERENCED STANDARD ^a | IBC REFERENCE |
| | | х | ACI 318: 3.5, 7.1-7.7 | 1910.4 |
| | | | AWS D1.4 ACI 318: 3.5.2 | |
| | | х | ACI 318: 8.1.3, 21.2.8 | 1908.5, 1909.1 |
| | | х | ACI 318: 3.8.6, 8.1.3, 21.2.8 | 1909.1 |
| | | х | ACI 318: CH. 4, 5.2-5.4 | 1904.2, 1910.2, 1910.3 |
| o id rete. | Х | | ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 | 1910.10 |
| | х | | ACI 318: 5.9, 5.10 | 1910.6, 1910.7, 1910.8 |
| | | х | ACI 318: 5.11-5.13 | 1910.9 |
| er | | х | ACI 318: 6.1.1 | |
| nclude | d in the research r | eport for the anch | nor issued by an approved source | in accordance with ACI 355.2 or |

REQUIREMENTS TE CONSTRUCTION

| | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED |
|-------------------|-------------------------------|---------------------------------|
| dequate to | - | Х |
| and have | | Х |
| fill materials. | - | Х |
| hickness fill. | Х | - |
| ograde and | | х |

GEOTECHNICAL INSPECTION REQUIREMENTS

| TABLE N5.4-1 Inspection Tasks Prior to Welding | | |
|---|--------|--------------|
| INSPECTION TASKS PRIOR TO WELDING | CONT. | PERIODIC |
| Welding procedure specifications (WPSs) available | Х | |
| Manufacturer certifications for welding consumables available | Х | |
| Material identification (type/grade) | | Х |
| Welder identification system ¹ | | Х |
| Fit-up of groove welds (including joint geometry) Joint preparation Dimensions (alignment, root opening, root face, bevel) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) Backing type and fit (if applicable) | - | х |
| Configuration and finish of access holes | | Х |
| Fit-up of fillet welds Dimensions (alignment, gaps at root) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) | | х |
| Check welding equipment | | Х |
| ¹ The fabricator or erector, as applicable, shall maintain a system by which a welder who | has we | lded a joint |

or member can be identified. Stamps, if used, shall be the low-stress type.

| TABLE N5.4-2 Inspection Tasks During Welding | | |
|---|-------|----------|
| INSPECTION TASKS DURING WELDING | CONT. | PERIODIC |
| Use of qualified welders | | Х |
| Control and handling of welding consumables Packaging Exposure control | | х |
| No welding over cracked tack welds | | Х |
| Environmental conditionsWind speed within limitsPrecipitation and temperature | | х |
| WPS followed Settings on welding equipment Travel speed Selected welding materials Sheilding gas type/flow rate Preheat applied Interpass temperature maintained (min./max.) Proper position (F, V, H, OH) | | Х |
| Welding Techniques Interpass and final cleaning Each pass within profile limitations Each pass meets quality requirements | | х |

| TABLE N5.4-3 Inspection Tasks After Welding | | |
|--|----------|-------------|
| INSPECTION TASKS AFTER WELDING | CONT. | PERIODIC |
| Welds cleaned | | X |
| Size, length and location of welds | Х | |
| Welds meet visual acceptance criteria Crack prohibition Weld/base-material fusion Crater cross section Weld profiles Weld size Undercut Porosity | x | - |
| Arc strikes | Х | |
| k-area ¹ | Х | |
| Backing removed and weld tabs removed (if required) | Х | |
| Repair activities | Х | |
| Document acceptance or rejection of welded joint or member | Х | |
| ¹ When welding of doubler plates, continuity plates or stiffners has been performed in th inspect the web <i>k</i> -area for cracks within 3 in. (75 mm) of the weld. | e k-area | a, visually |



AISC 360-10, Table N5.4

| TABLE N5.6-1 | | |
|---|-------|----------|
| Inspection Tasks Prior to Bolting | | |
| INSPECTION TASKS PRIOR TO BOLTING | CONT. | PERIODIC |
| Manufacturer's certifications available for fastener materials | Х | |
| Fasteners marked in accordance with ASTM requiements | | X |
| Proper fasteners selected for the joint detail (grade, type, bolt length if theads are to be excluded from shear plane) | | x |
| Proper bolting procedure selected for joint detail | | X |
| Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | | x |
| Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used | | x |
| Proper storage provided for bolts, nuts, washers and other fastener components | | x |
| | | |

| TABLE N5.6-2 Inspection Tasks During Bolting | | |
|--|------|----------|
| INSPECTION TASKS DURING BOLTING | CONT | PERIODIC |
| Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required | | x |
| Joint brought to the snug-tight condition prior to the pretensioning operation | | х |
| Fastener component not turned by the wrench prevented from rotating | | X |
| Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges | | х |
| | | |
| TABLE N5.6-3 | | |
| Inspection Tasks After Bolting | | |

Inspection Tasks After Bolting INSPECTION TASKS AFTER BOLTING Document acceptance or rejection of bolted connections

CONT. PERIODIC

X ---



INSPECTION REQUIREMENTS FOR STRUCTURAL STEEL BOLTING

AISC 360-10, Table N5.6

This Statement of Special Inspections encompasses the following discipline: Structural

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the 2015 International Building Code. It includes a schedule of Special Inspection services and tests applicable to this project.

The owner or owner's authorized agent, other than the contractor, shall employ one or more Approved Agencies to provide special structural inspections and tests during construction as required following. All Approved Agencies shall meet the independence, equipment and personnel requirements of IBC section 1703.1. Each Approved Agency shall provide written documentation to the Building Official as described in IBC section 1704.2.1 for review and approval by the Building Official prior to issuance of a building permit.

The contractor shall review the inspections required in the tables below and shall submit a written statement of responsibility to the Building Official in accordance with IBC section 1704.4 The contractor shall be responsible for coordinating with the Approved Agencies regarding the inspections required, and shall be responsible for scheduling inspections with the Approved Agencies. The contractor shall maintain access to all items requiring inspection in accordance with IBC section 1704.2.2. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

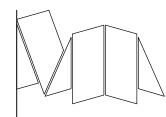
The Approved Agencies shall maintain records of the special inspections and tests and shall submit reports of such to the Building Official and to the Structural Engineer of Record in a timely fashion. Interim reports shall be submitted to the Building Official and the Structural Engineer of Record at an interval determined by the Building Official, but not less frequently than on a weekly basis. Reports shall be in accordance with IBC section 1704.2.4 with discrepancies handled described as noted therein. All discrepancies that are not corrected in a timely fashion shall be promptly brought to the attention of the Building Official and the Structural Engineer of Record. A final report as described in IBC section 1704.2.4 shall be submitted to the Building Official and to the Structural Engineer of Record.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

INSPECTIONS FOR SEISMIC RESISTANCE

Main Seismic Force Resisting System Description (MSFRS): The MSFRS consists of horizontal wood-sheathed roof and floor diaphragms with nailing requirements as specified in the structural notes and on the structural plans and details. Horizontal straps collect and transfer loads to the shear walls, and are indicated on the plans and details. The floor and roof diaphragms are laterally supported by wood-sheathed shear walls as noted on the plans and in the shear wall schedule. Most shear walls have hold-downs near the ends of the wall segments. Some hold-downs consists of rectangular steel posts built into the walls and connected to the walls by wood framing on both sides of the posts. Other shear wall hold-downs include vertical strap ties and/or tension rods. All hold-downs and their connections to the foundations walls and footings are specified on the plans, details, and wall elevations and in the structural notes.

In addition to the inspections listed in the tables following, periodic special inspection shall be required for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms including blocking where specified, horizontal strapping at shear wall lines, hold-downs, and anchorage to foundation walls and footings.



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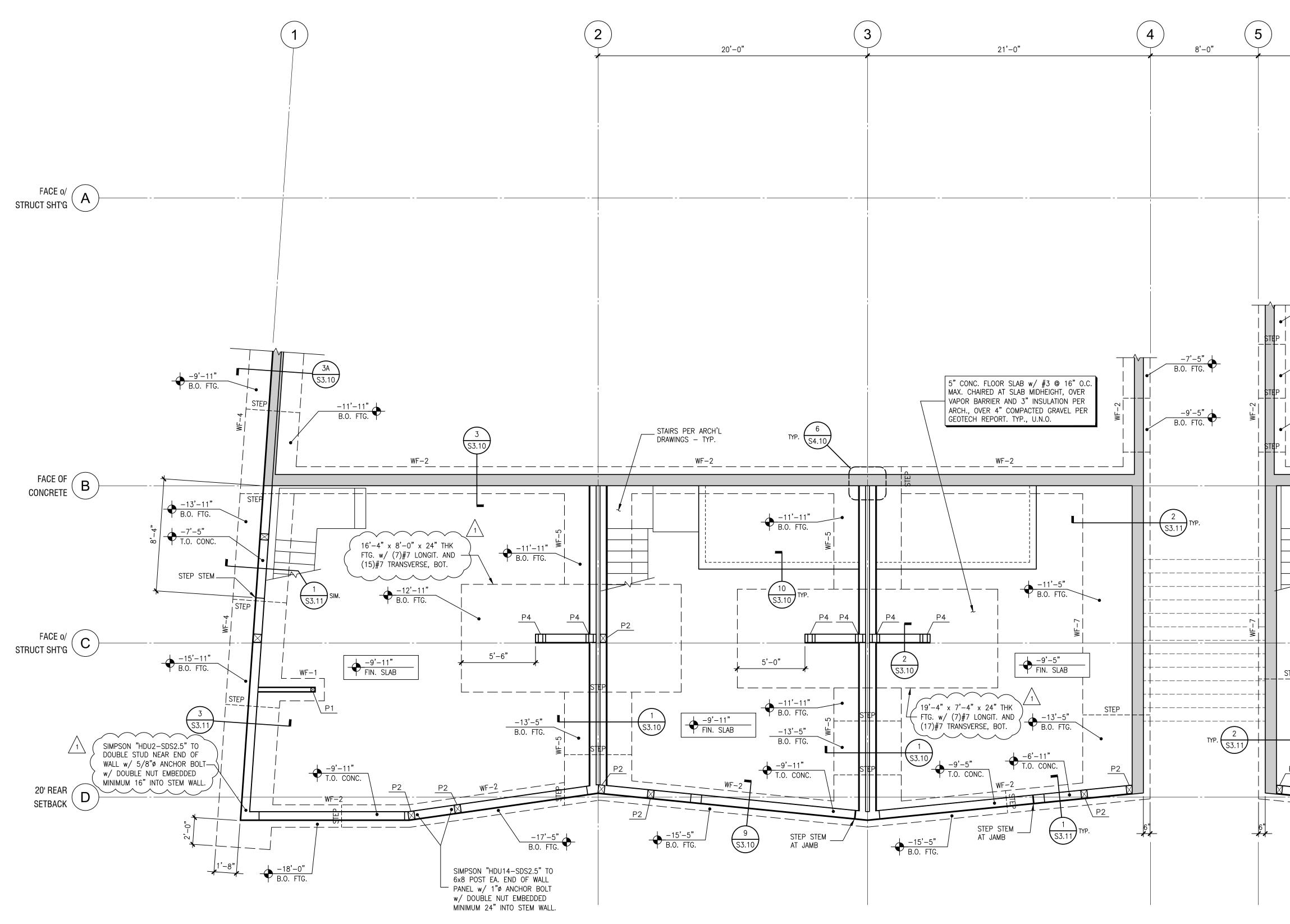
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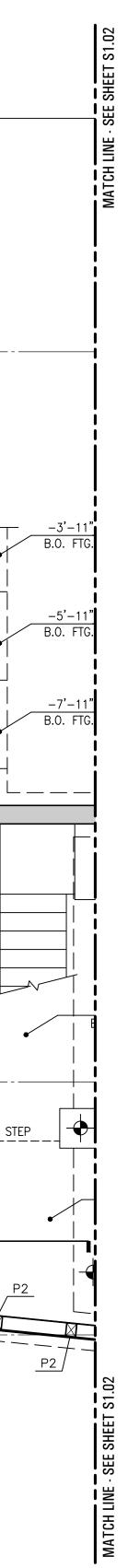
9250862-220 MARK A. RUDOW



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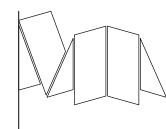




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SHOWN. PROVIDE (2) #4 × 4'-0" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB BARS PER ABOVE.

- 6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS, SLAB SLOPES & DEPRESSIONS NOT NOTED.
- 7. SEE ARCH'L DRAWINGS FOR ALL DIMENSIONS NOT INDICATED.
- 8. FIN. FLR. DATUM: +0'-0" = 8600.5'



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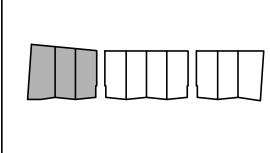
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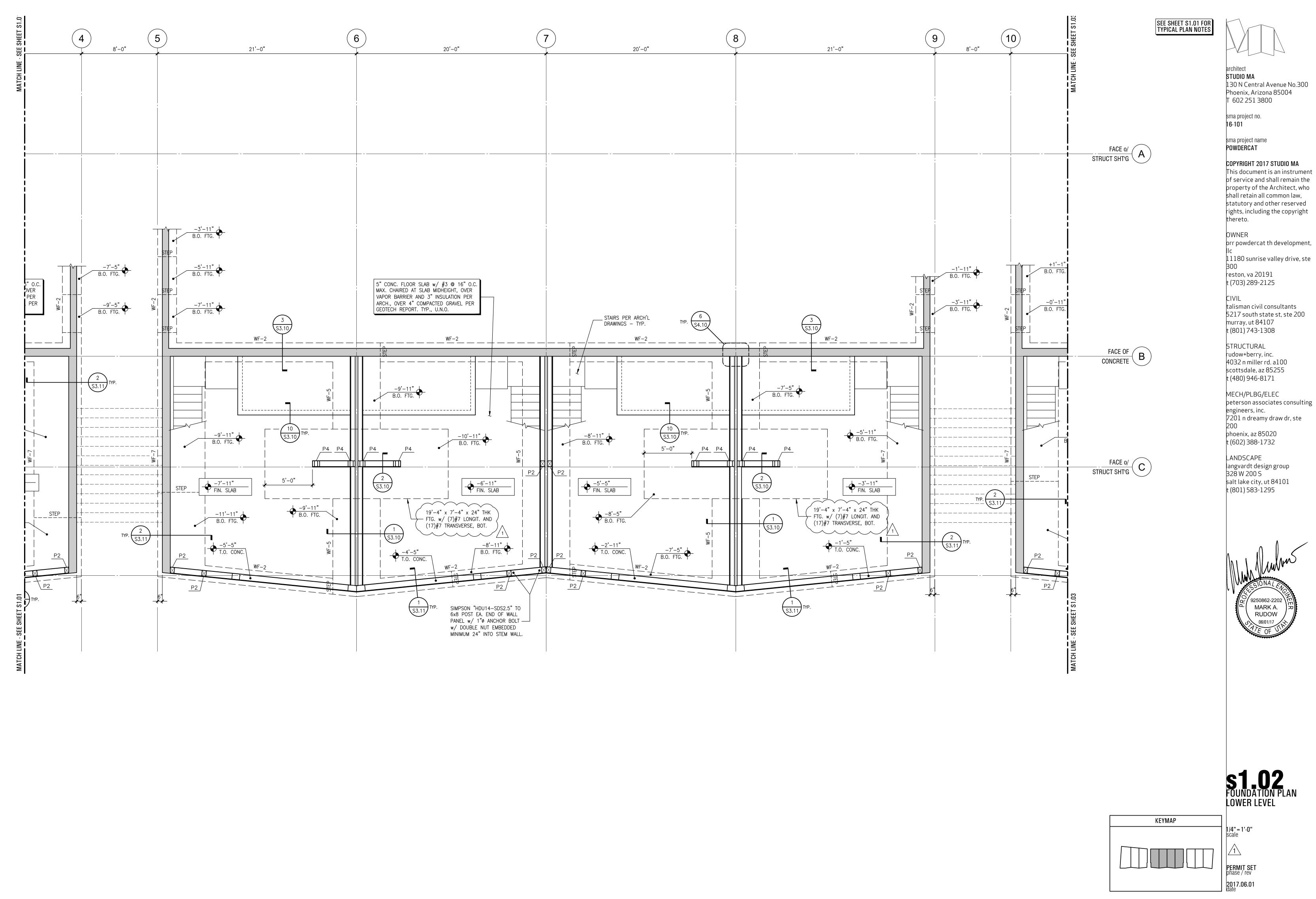
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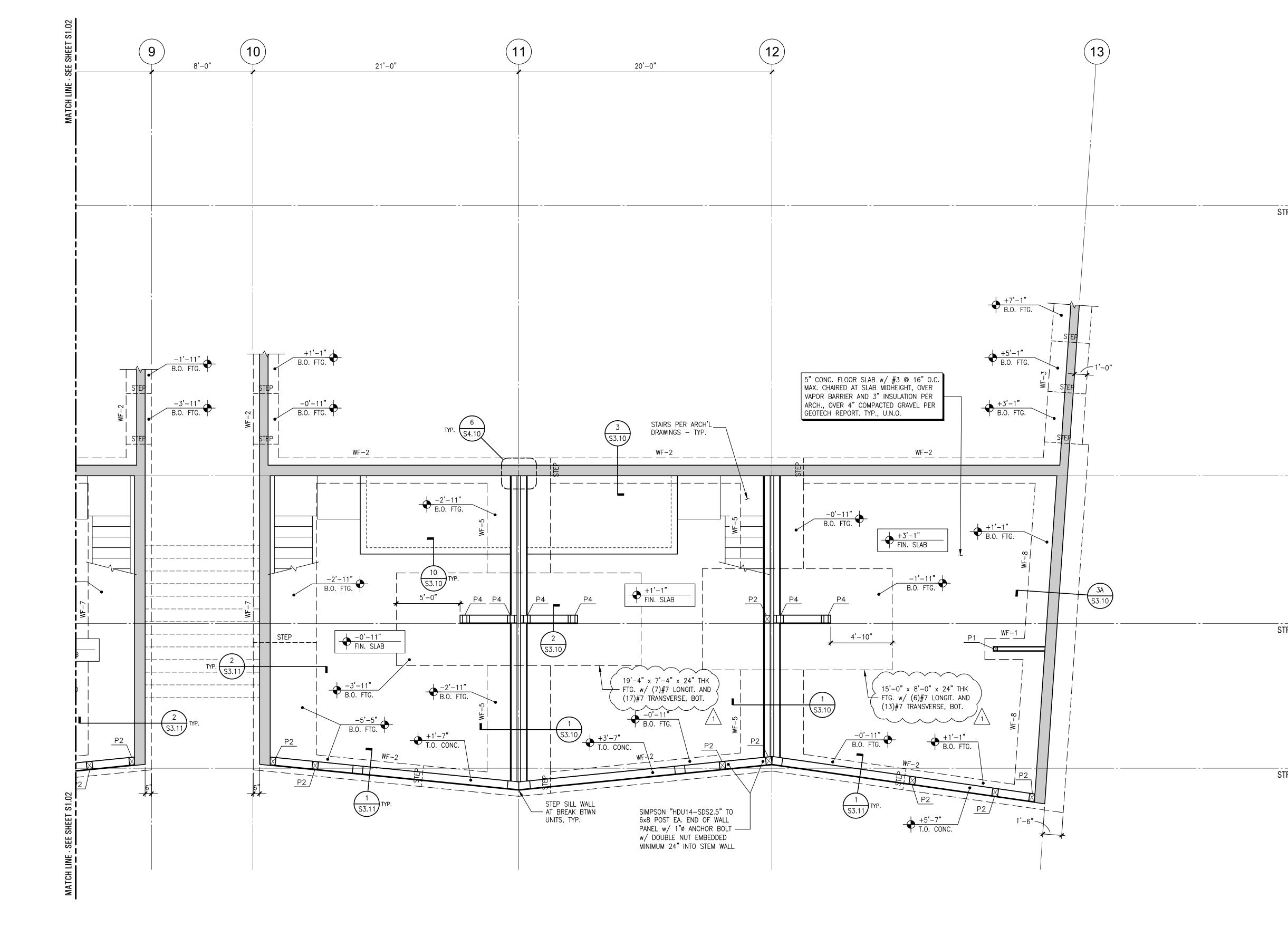


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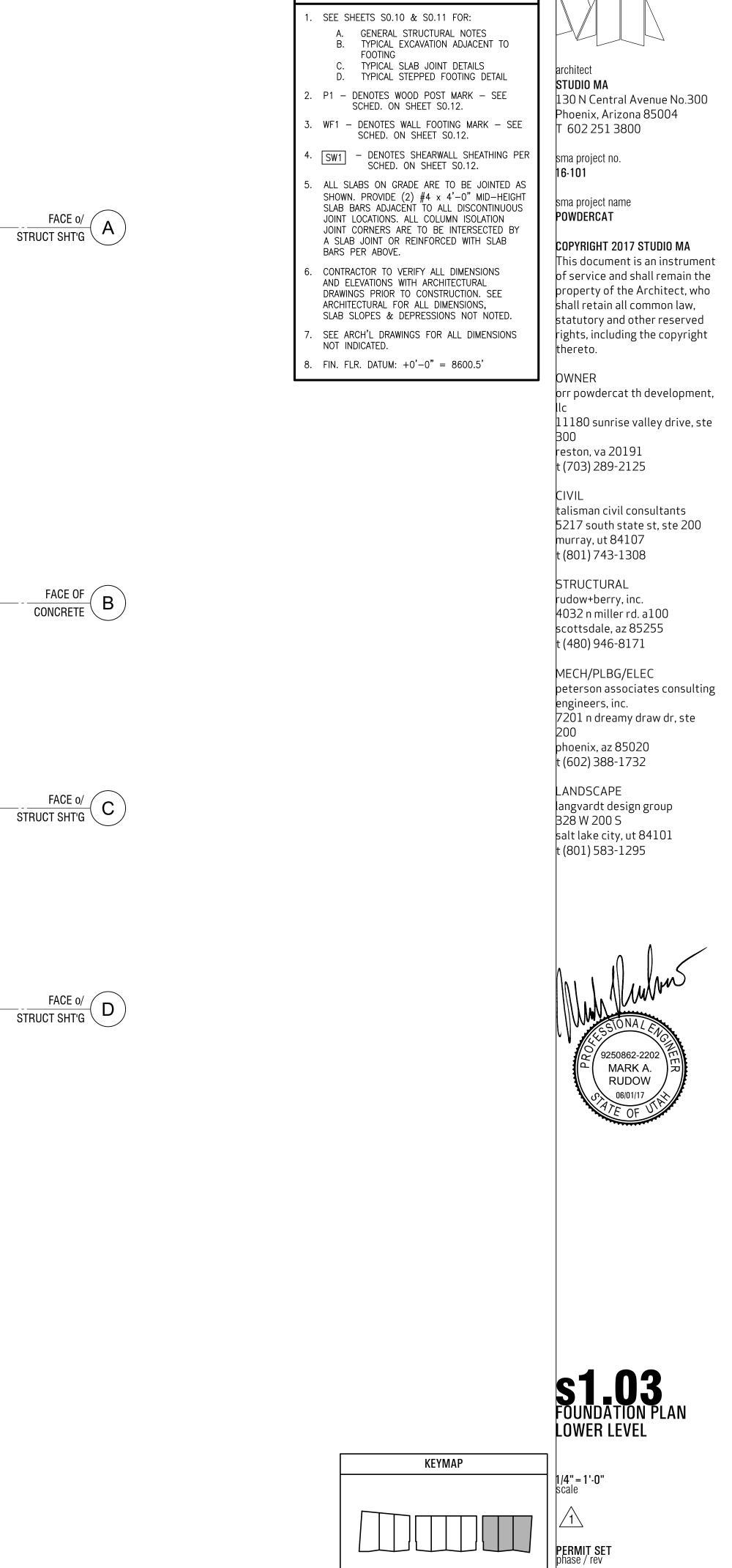






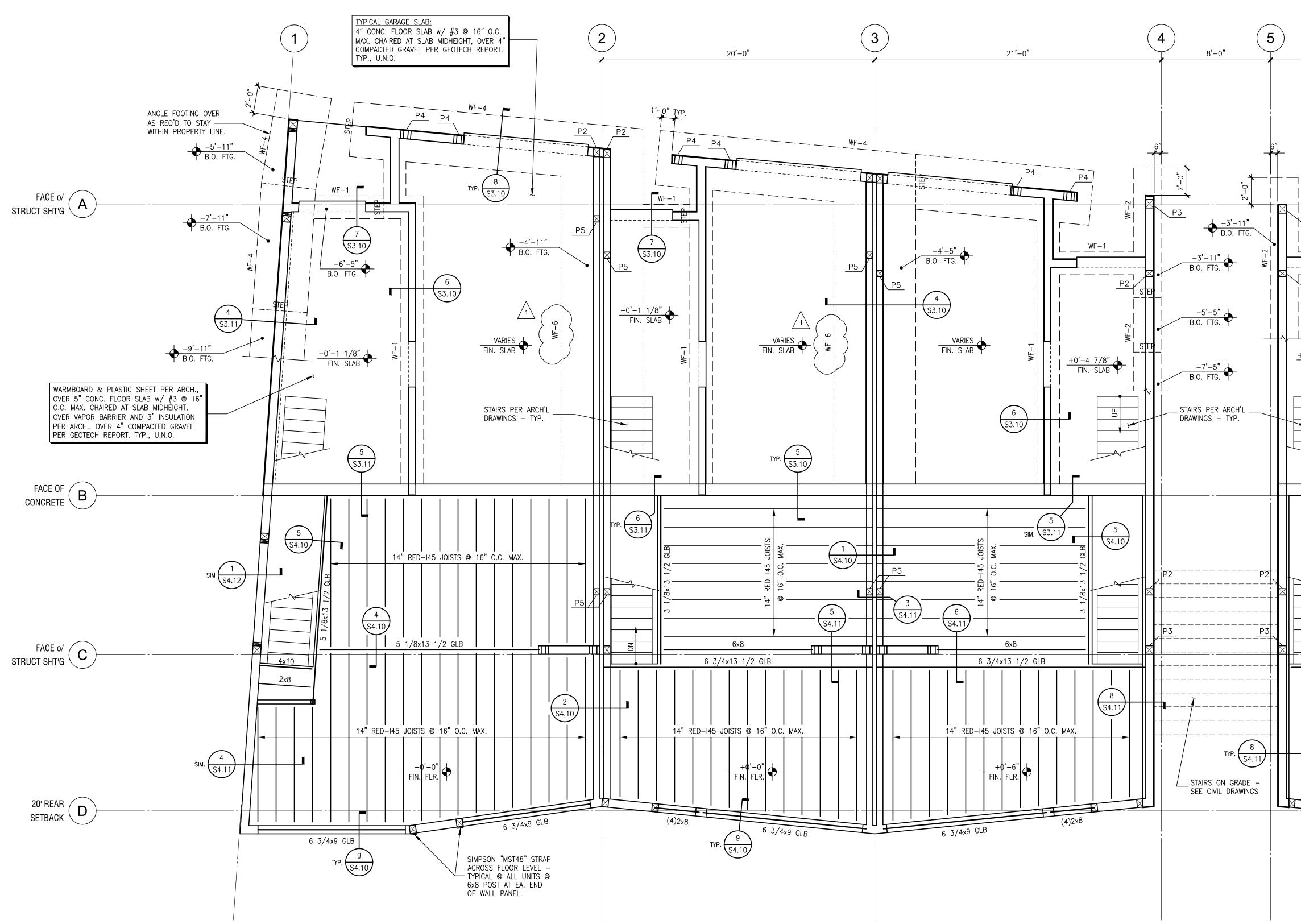




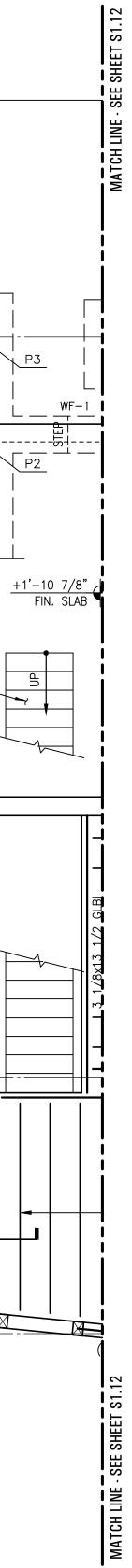


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| 2. | P1 – DENOTES WOOD POST MARK – SEE SCHED. ON SHEET S0.12. |
| 3. | WF1 – DENOTES WALL FOOTING MARK – SEE SCHED. ON SHEET S0.12. |
| 4. | SW1 – DENOTES SHEARWALL SHEATHING PER SCHED. ON SHEET S0.12. |
| 5. | ALL SLABS ON GRADE ARE TO BE JOINTED AS SHOWN. PROVIDE (2) $#4 \times 4'-0$ " MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB BARS PER ABOVE. |
| 6. | CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS, SLAB SLOPES & DEPRESSIONS NOT NOTED. |
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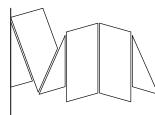
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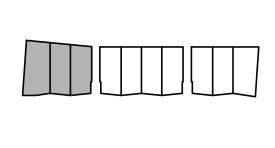
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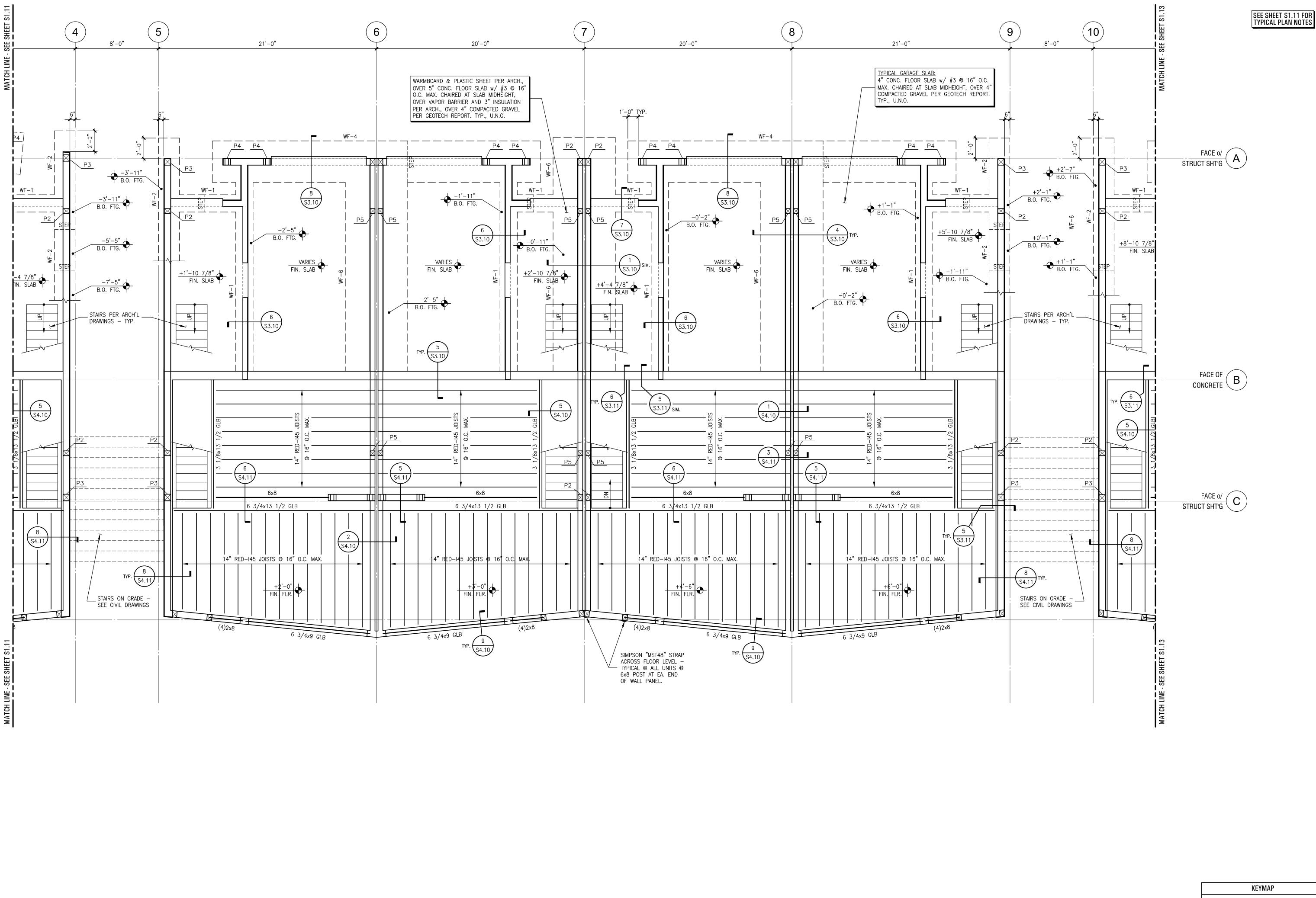
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1/4" = 1'-0" scale <u>1</u> PERMIT SET phase / rev 2017.06.01 date

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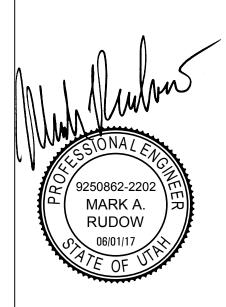
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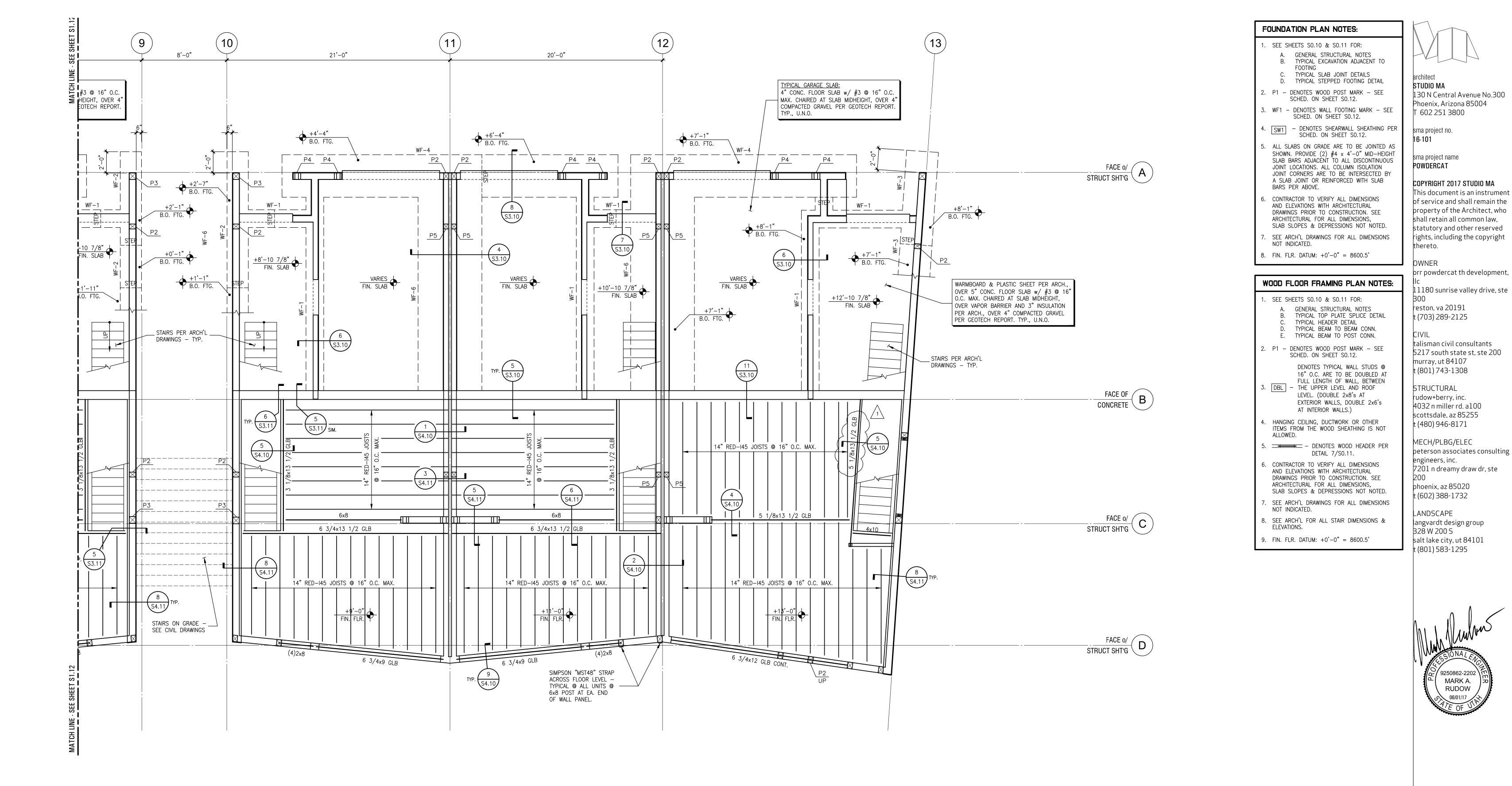
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S1.12 FDN./FLR. FRMG. PLAN ENTRY LEVEL

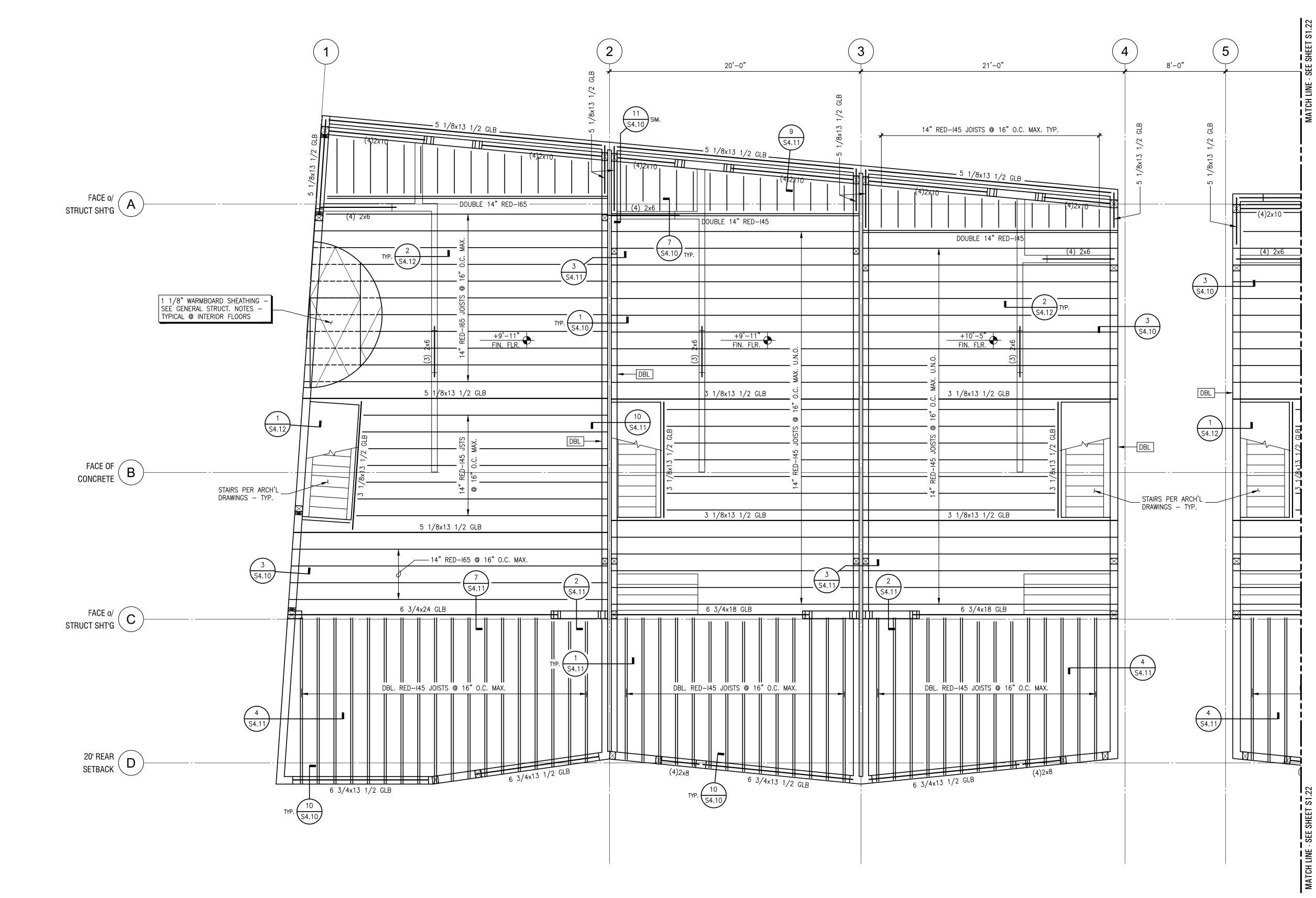


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MARK A. RUDOW





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| 2. P | 1 – DENOTES WOOD POST MARK – SEE SCHED. ON SHEET S0.12. | 130 N Central Avenue No.300 Phoenix, Arizona 85004 |
| 3. D | DENOTES TYPICAL WALL STUDS @ 16" O.C. ARE TO BE DOUBLED AT FULL LENGTH OF WALL, BETWEEN DBL – THE UPPER LEVEL AND ROOF LEVEL. (DOUBLE 2x8's AT EXTERIOR WALLS, DOUBLE 2x6's AT INTERIOR WALLS.) | T 602 251 3800 sma project no. 16-101 sma project name |
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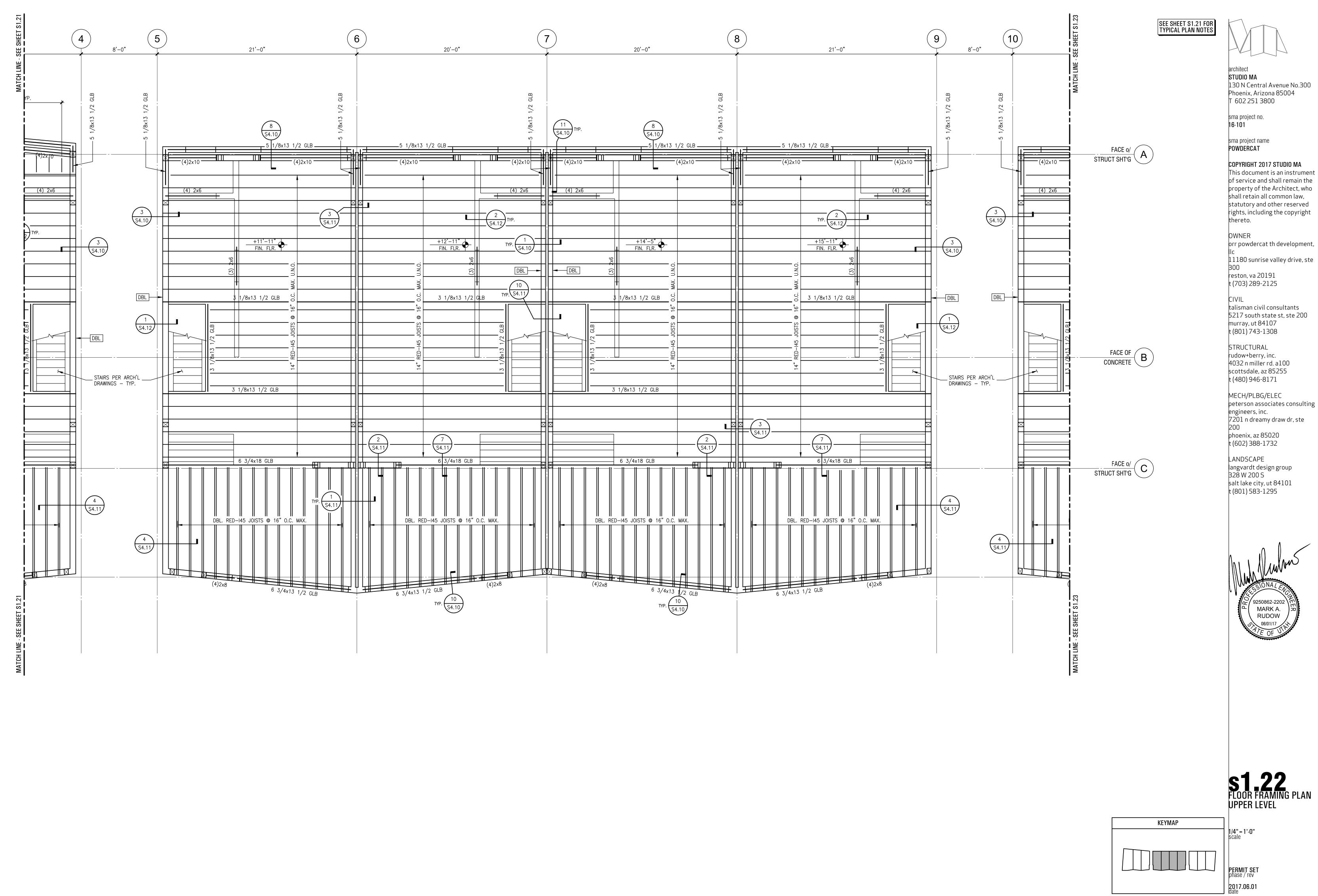
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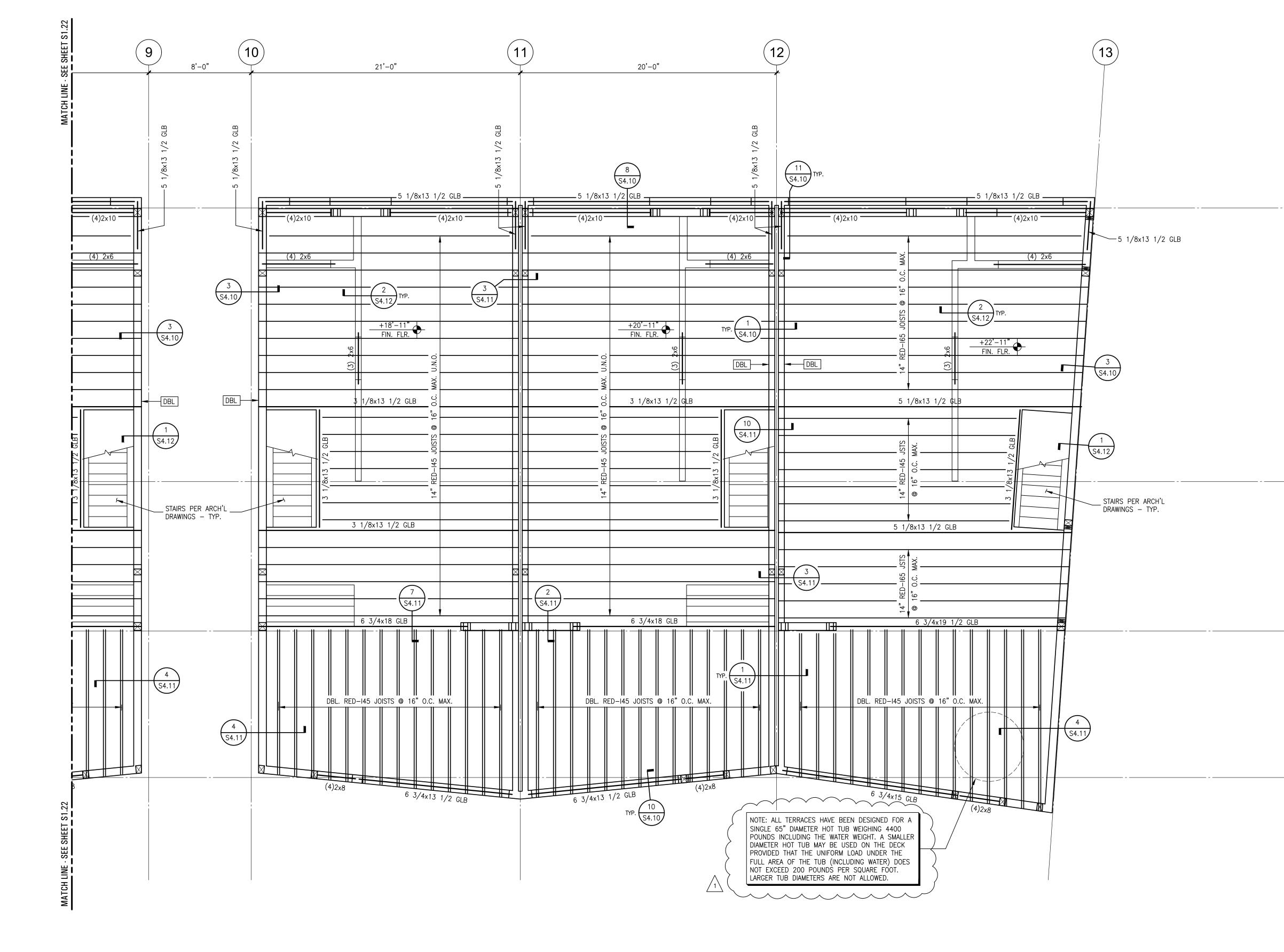
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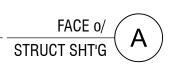




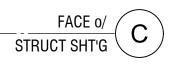


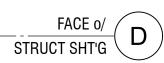
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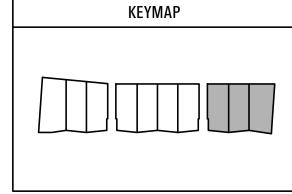
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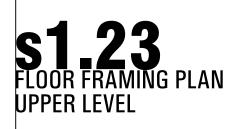
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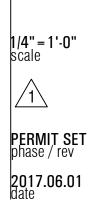
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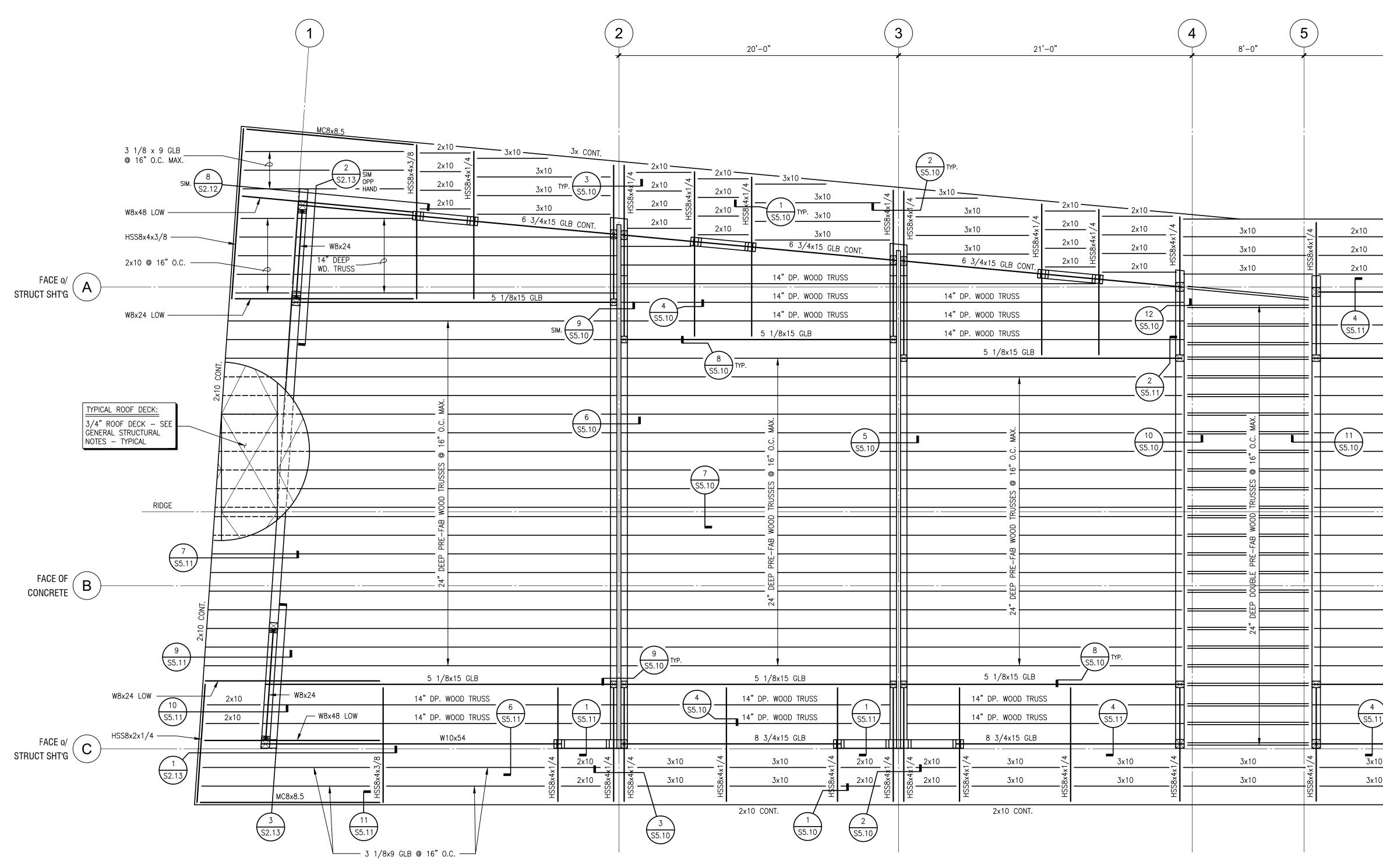
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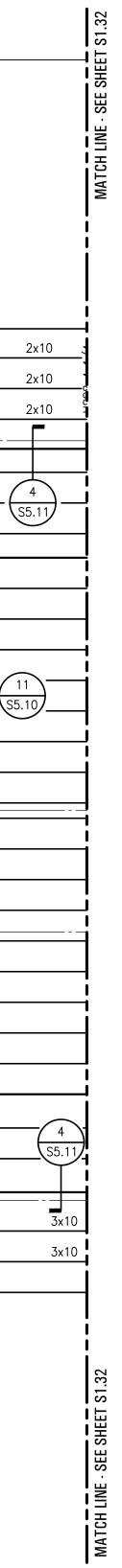


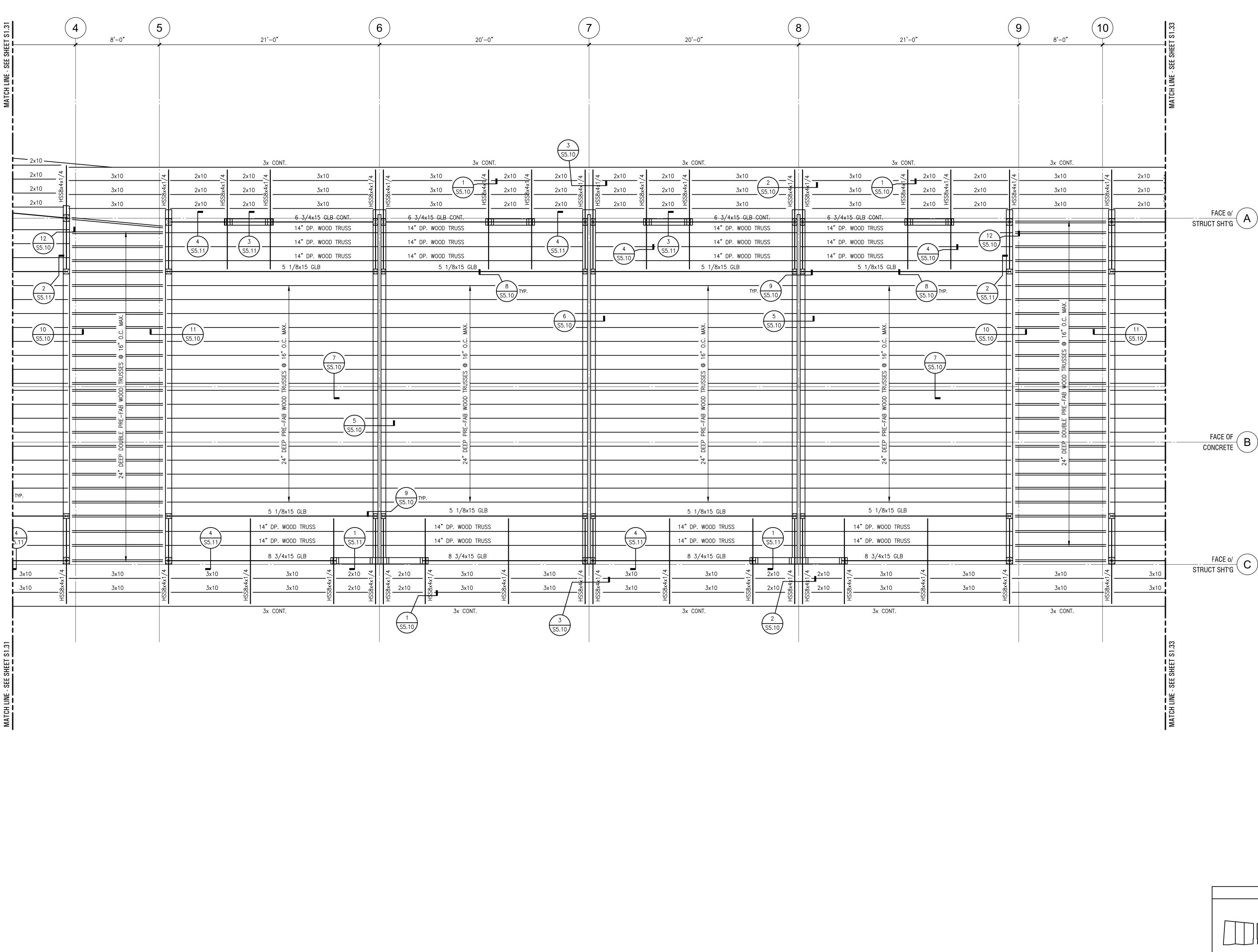




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| | | G. TYPICAL ROOF PLYWOOD LAYOUT.2. SEE ARCH'L DRAWINGS FOR ALL B.O.D. ROOF | 130 N Central Avenue No.300 Phoenix, Arizona 85004 |
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| <pre>(703) 289-2125 C/NL Lidisma Civil consultants S212 south state st, ste 200 nurray, ut B1107 (801) 743-1308 STRUCTURAL Uddw.terry.inc. 1032 nmiller.rd, a100 constated, as8255 (1480) 946-8371 MECHYPLBG/ELC Petersmane data consulting engineers.inc. 2010 nd memory data dt, ste 200 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry. consulting engineers.inc. 2010 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 2010 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 2010 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 201 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 201 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 201 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 201 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 201 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting engineers.inc. 201 phoenix, az85020 (1602) 388-1732 ANDSCAPE angust design group S28 M2005 STRUCTURAL Uddw.terry.consulting Engineers.inc. 201 phoenix, az85020 (1602) 388-173 ANDSCAPE S28 ANDSCA</pre> | | | orr powdercat th development, llc 11180 sunrise valley drive, ste 300 |
| Aliman civil consultants 527 Availability 1(801)743-1308 STRUCTURAL 1020 vHorry inc. 4925 Availability 1020 vHorry inc. 4926 Availability 1020 vHorry inc. 4926 Availability 1020 vHorry inc. 4926 Availability 1020 vHorry inc. 4920 vHorry inc. | | | |
| STUCTURAL rddswiberry, lic. Hodswiberry, lic. Ho | | | talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 |
| EXTRAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP KEYNAP | | | STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85255 |
| Implementation Province 258 H 732 Implementation Implementation Implementation Baseline Implementation Implementation Baseline Implementation Implementation Implementation Implementation Implementation </th <th></th> <th></th> <th>peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste</th> | | | peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste |
| Salt Jake city, ut 84101 t (001) 583-1295 MARK A RUDOW MARK A RUDOW Salt 331 RUDOF FRAMING PLAN ROOF LEVEL MARK A RUDOW MARK A MARK A RUDOW MARK A MARK A MARK A MARK A MARK A MARK | | | phoenix, az 85020 t (602) 388-1732 LANDSCAPE |
| KEYMAP | | | 328 W 200 S salt lake city, ut 84101 |
| KEYMAP | | | Δ |
| KEYMAP 1/4" = 1'-0" Scale Scale | | | MARK A. RUDOW |
| KEYMAP 1/4" = 1'-0" Scale Scale | | | |
| KEYMAP 1/4" = 1'-0" Scale Scale | | | |
| KEYMAP 1/4" = 1'-0" Scale Scale | | | |
| 1/4" = 1'-0" scale | | | S1_31 ROOF FRAMING PLAN ROOF LEVEL |
| | | КЕҮМАР | 1/4" = 1'-0" |
| | | | PERMIT SET phase / rev |

2017.06.01 date





AutoCAD Version: 2017 June 01, 2017 4:27:56 p.m. Drawing: W:\A17100 - CCW Po. Xrefs: XR-MAIN-16126 XT-1612

SEE SHEET S1.31 FOR Typical plan notes

chitec STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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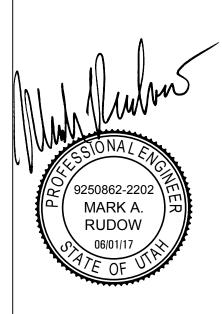
OWNER prr powdercat th development, 11180 sunrise valley drive, ste B00 reston, va 20191 t (703) 289-2125

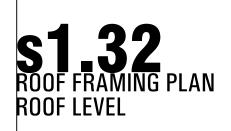
CIVIL talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

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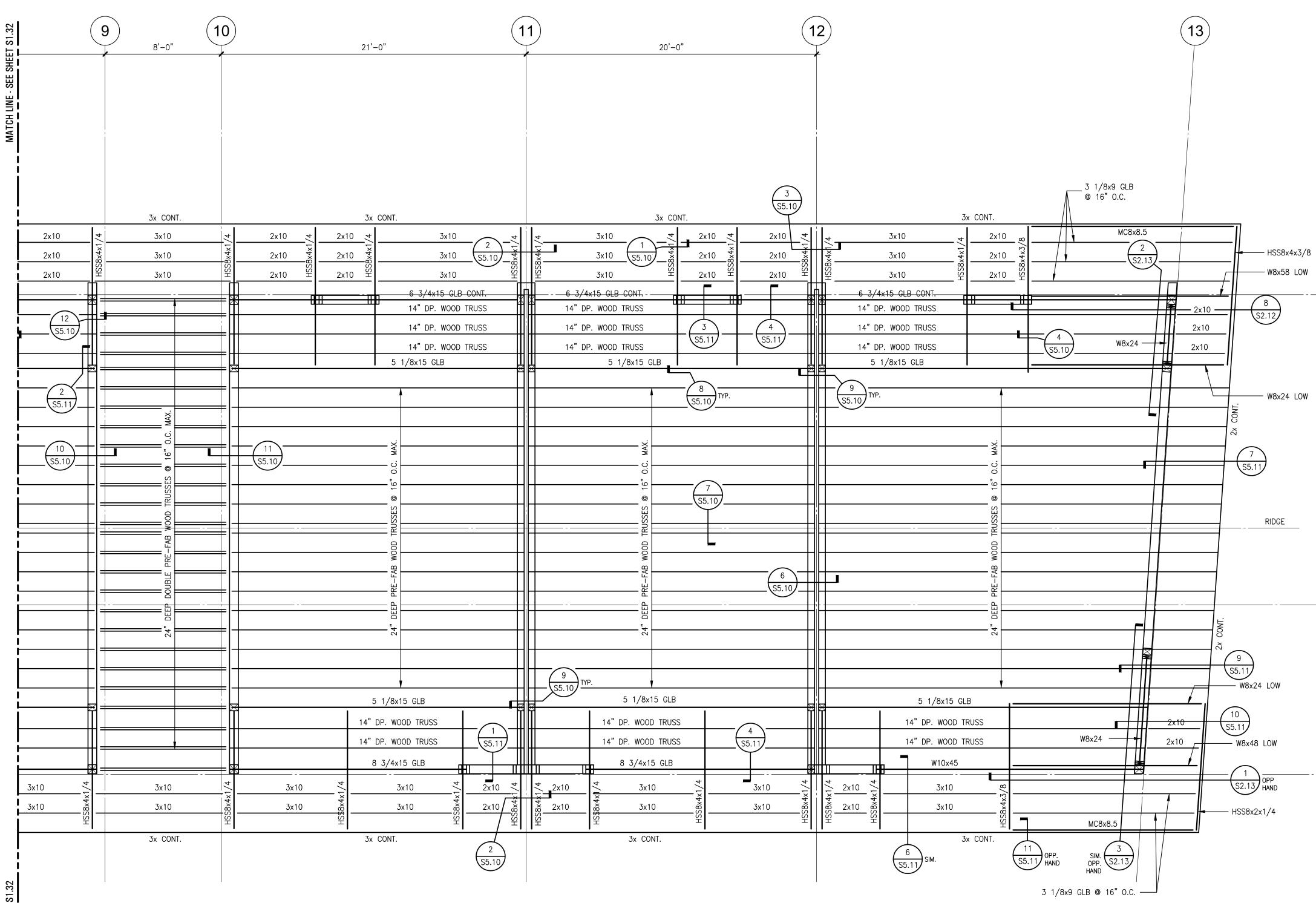
LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





1/4" = 1'-0" scale

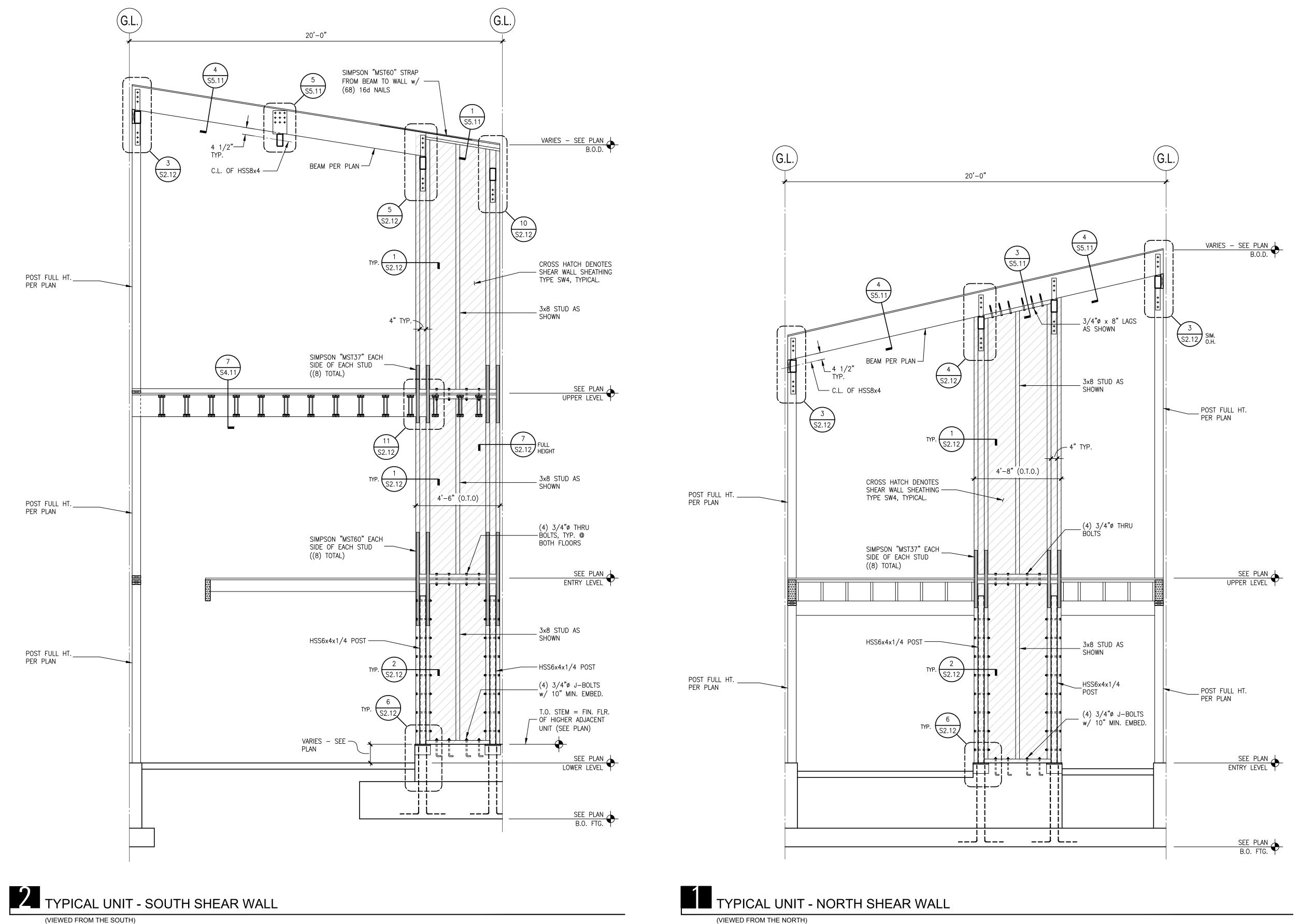
KEYMAP



INE - SEE SHEET S1.32

AutoCAD Version: 2017 June 01, 2017 4:28:20 p.m. Drawing: W:\A17100 - CCW Powdercat\S1.33.DWG (K Xrefs: XN-RFNOTES XR-MAIN-16126 XT-16126

| | ROOF FRAMING PLAN NOTES: | |
|---------------------------|--|---|
| | SEE SHEETS S0.10 & S0.11 FOR: A. GENERAL STRUCTURAL NOTES B. TYPICAL TOP PLATE SPLICE DETAIL C. TYP. MECH'L UNIT SUPPORT FRAMING D. TYPICAL HEADER DETAIL E. TYPICAL BEAM TO BEAM CONN. F. TYPICAL BEAM TO POST CONN. G. TYPICAL ROOF PLYWOOD LAYOUT. | architect STUDIO MA 130 N Central Avenue No.300 Phoenix Arizona 85004 |
| | SEE ARCH'L DRAWINGS FOR ALL B.O.D. ROOF ELEVATIONS. DENOTES OPENING IN ROOF DECK, COORDINATED SIZE & LOCATION w/ MECH. DRAWINGS. PROVIDE OPENING FRAMING PER DETAILS | Phoenix, Arizona 85004 T 602 251 3800 sma project no. 16-101 |
| | OPENNING PRAMING PER DETAILS ON SHEET SO.11. 4 – DENOTES WOOD HEADER PER | sma project name POWDERCAT |
| FACE o/ A STRUCT SHT'G | DETAIL 7/S0.11. 5. ESTABLISH AND VERIFY ALL OPENINGS & INSERTS FOR MECHANICAL, ELECTRICAL & PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. 6. HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE ROOF SHEATHING IS NOT ALLOWED. | COPYRIGHT 2017 STUDIO MA This document is an instrument of service and shall remain the property of the Architect, who shall retain all common law, statutory and other reserved rights, including the copyright thereto. |
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| | | STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85255 t (480) 946-8171 |
| FACE OF CONCRETE | | MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732 |
| | | LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295 |
| FACE 0/ STRUCT SHT'G | | |
| | | 9250862-2202 MARK A. RUDOW 06/01/17 |
| | | |
| | | S1.33 ROOF FRAMING PLAN ROOF LEVEL |
| | КЕҮМАР |] 1/4" = 1'-0" |
| | | scale |
| | | PERMIT SET phase / rev 2017.06.01 date |





(VIEWED FROM THE NORTH)

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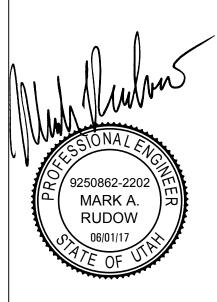
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murray, ut 84107 t (801) 743-1308

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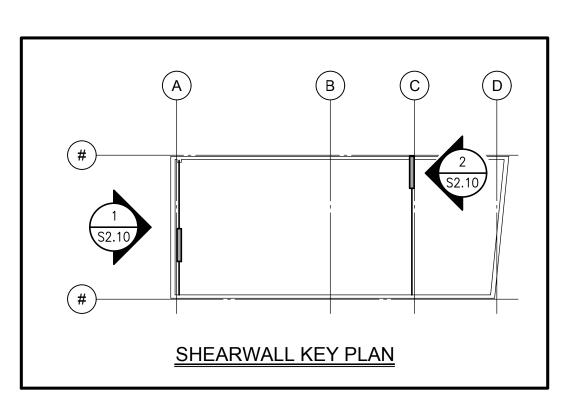
MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

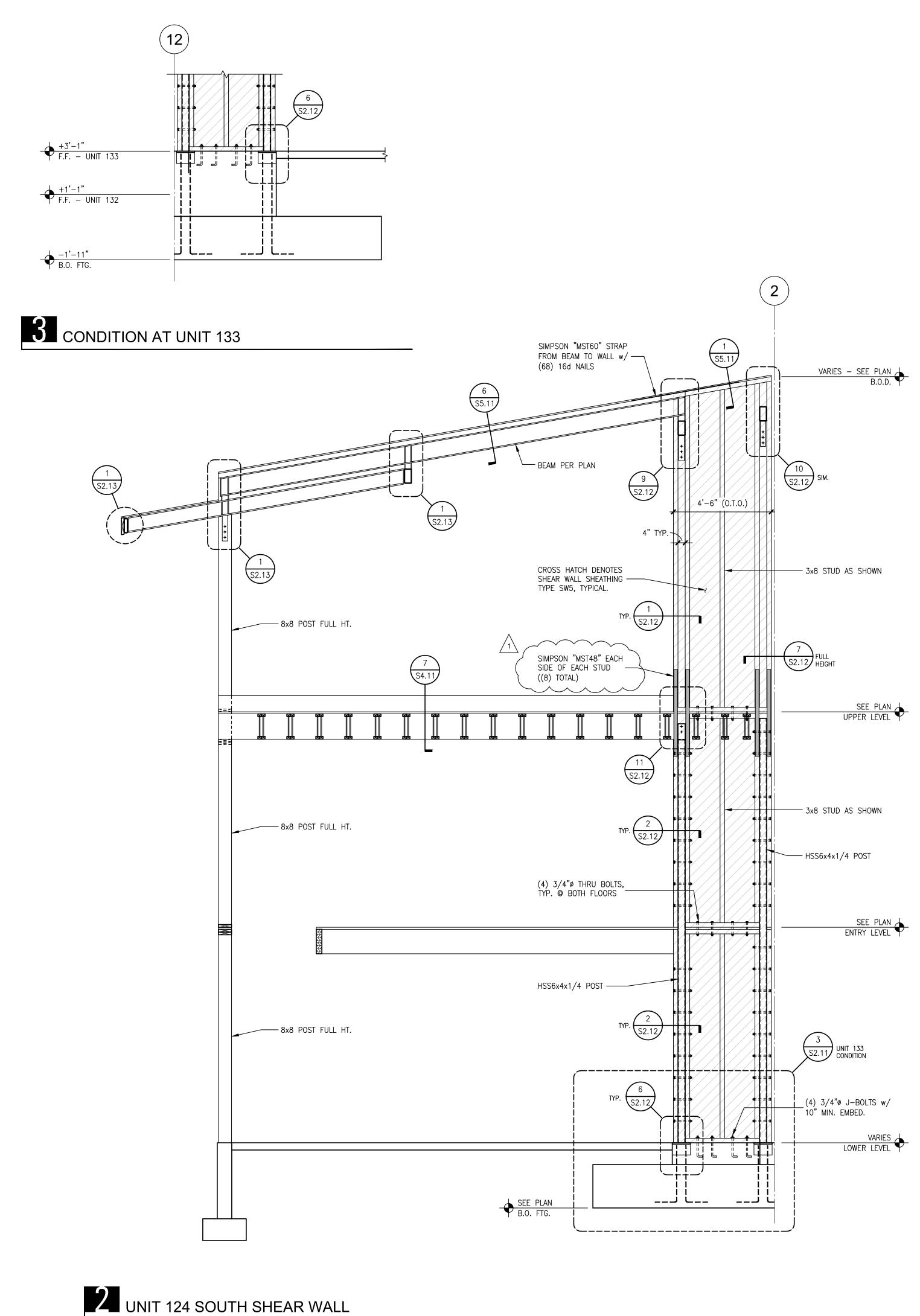
LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



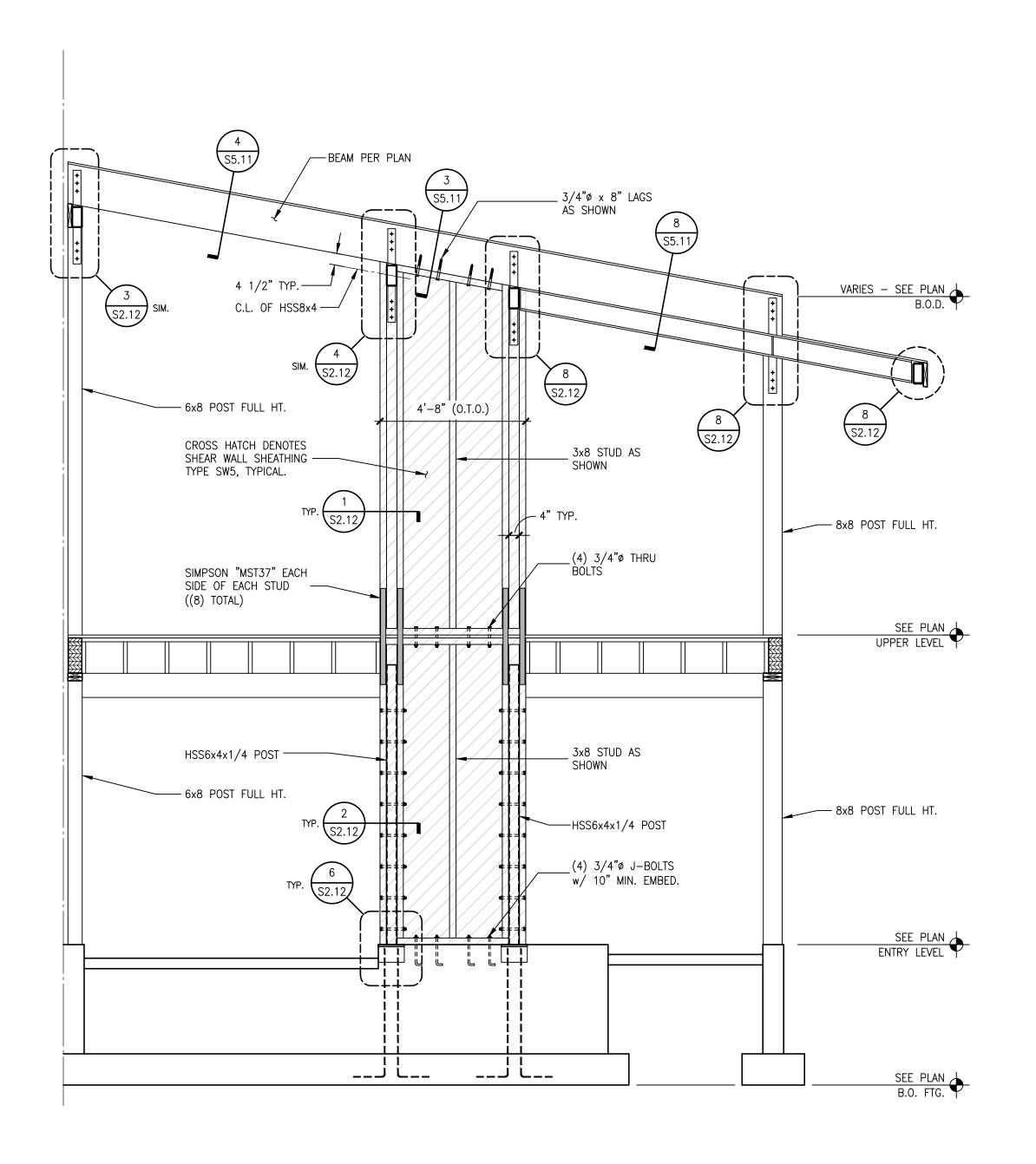


3/8" = 1'-0" scale





⁽VIEWED FROM THE SOUTH - UNIT 133 SIMILAR, OPPOSITE HAND))





UNIT 124 NORTH SHEAR WALL

(VIEWED FROM THE NORTH - UNIT 133 SIMILAR, OPPOSITE HAND))

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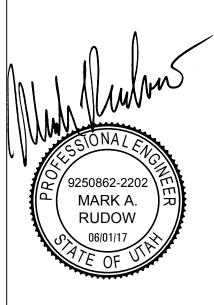
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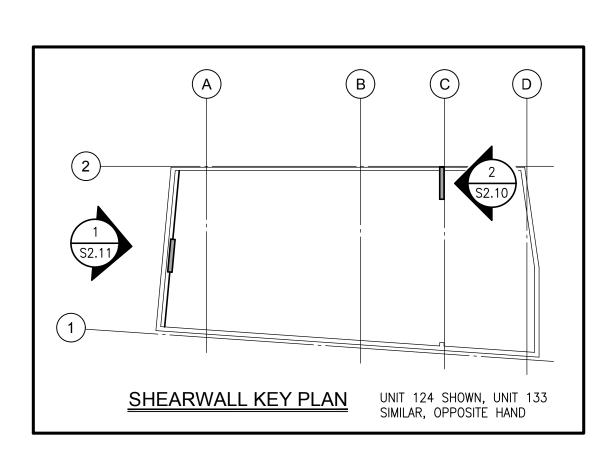
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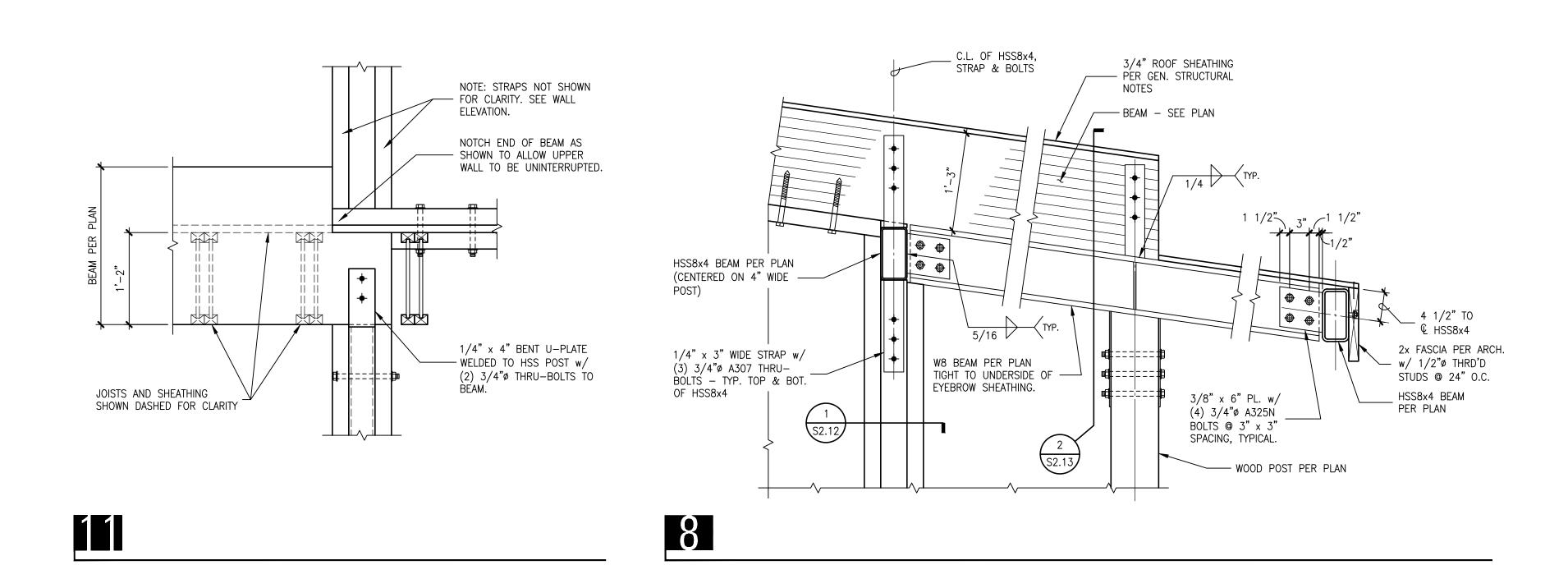


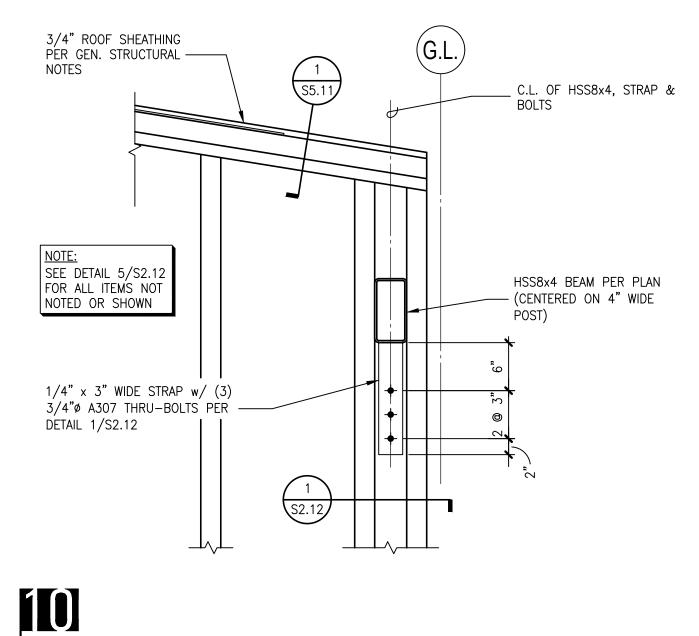


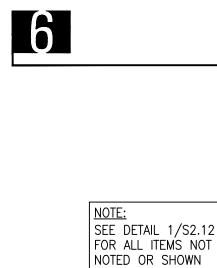
3/8" = 1'-0" scale

<u>/1</u>









SHEAR WALL SHEATHING

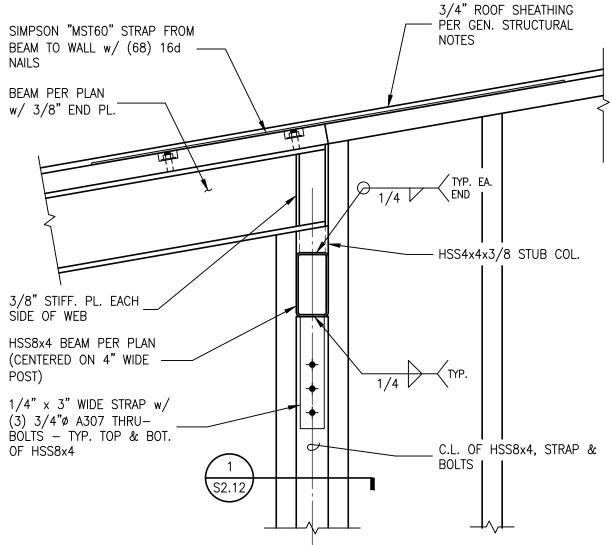
EXTEND SHEARWALL TO FAR SIDE OF DEMISING -WALL AS SHOWN - TYP.

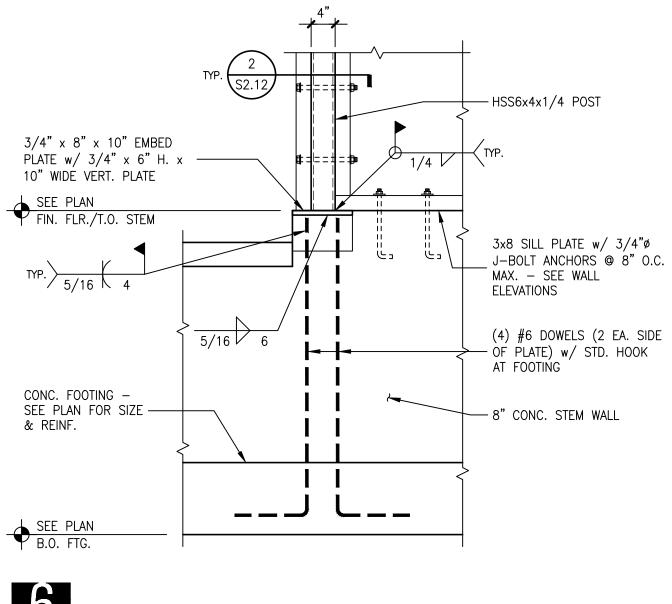
TYPICAL

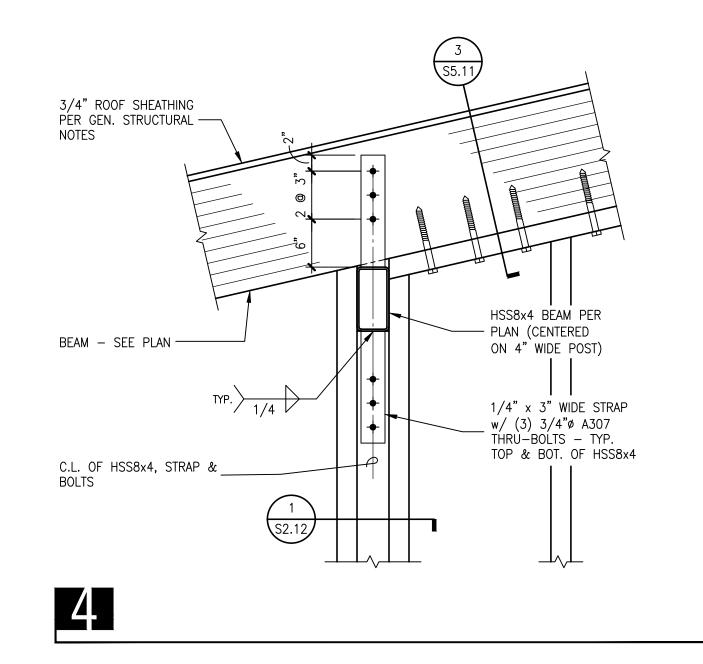
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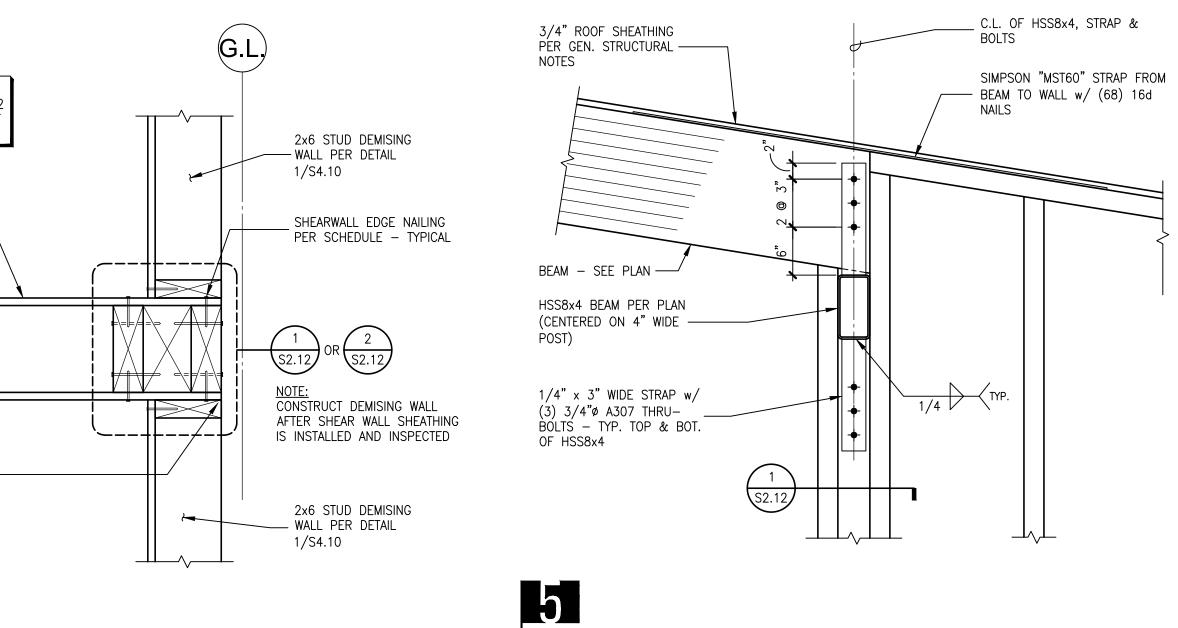
PER PLAN AND SCHED. ——

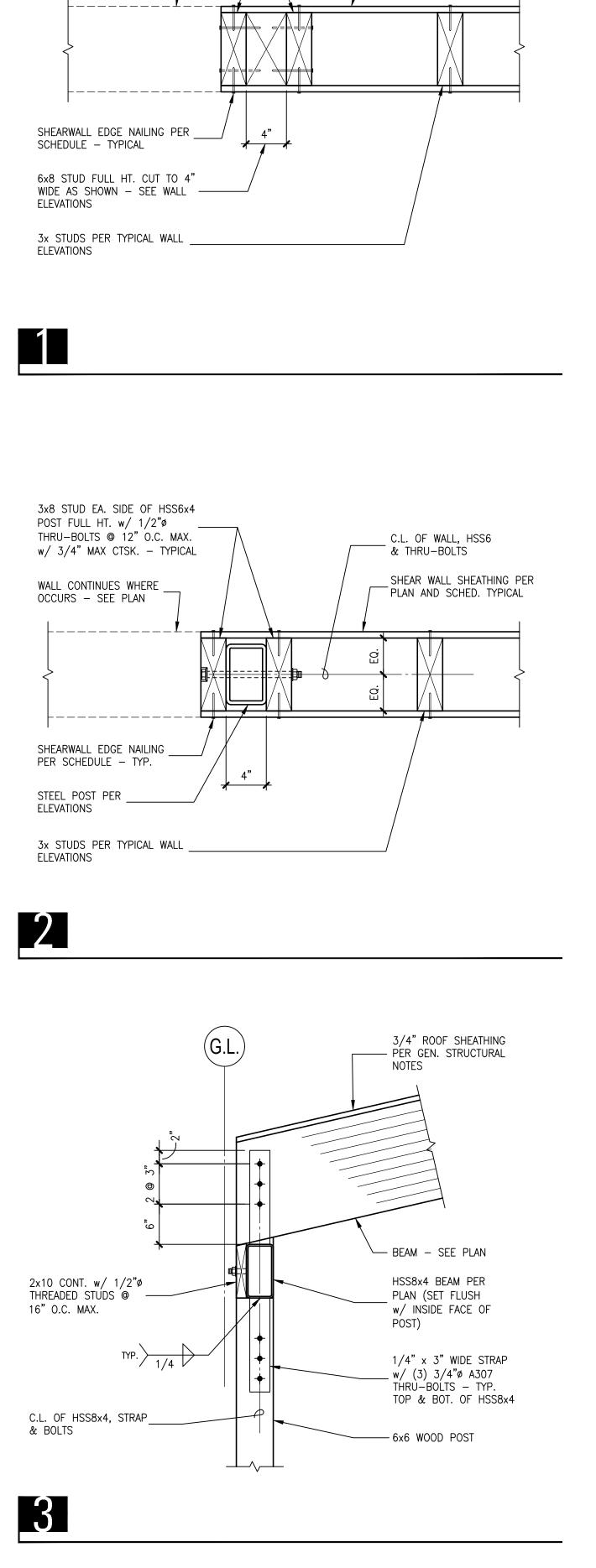












3x8 STUD EA. SIDE OF 4" WIDE

8" O.C. MAX. STAGGERED - TYP.

WALL CONTINUES WHERE

OCCURS – SEE PLAN

STUD FULL HT. w/ 20d NAILS @ --

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SHEAR WALL SHEATHING PER

PLAN AND SCHED. TYPICAL

sma project name POWDERCAT

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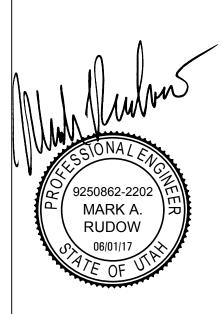
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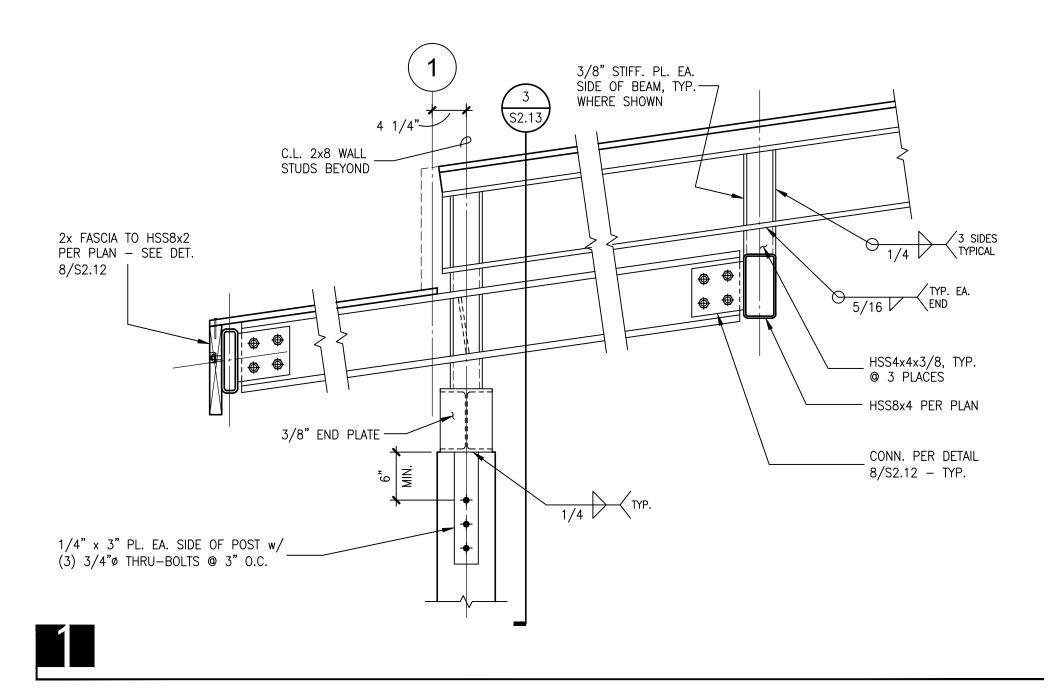
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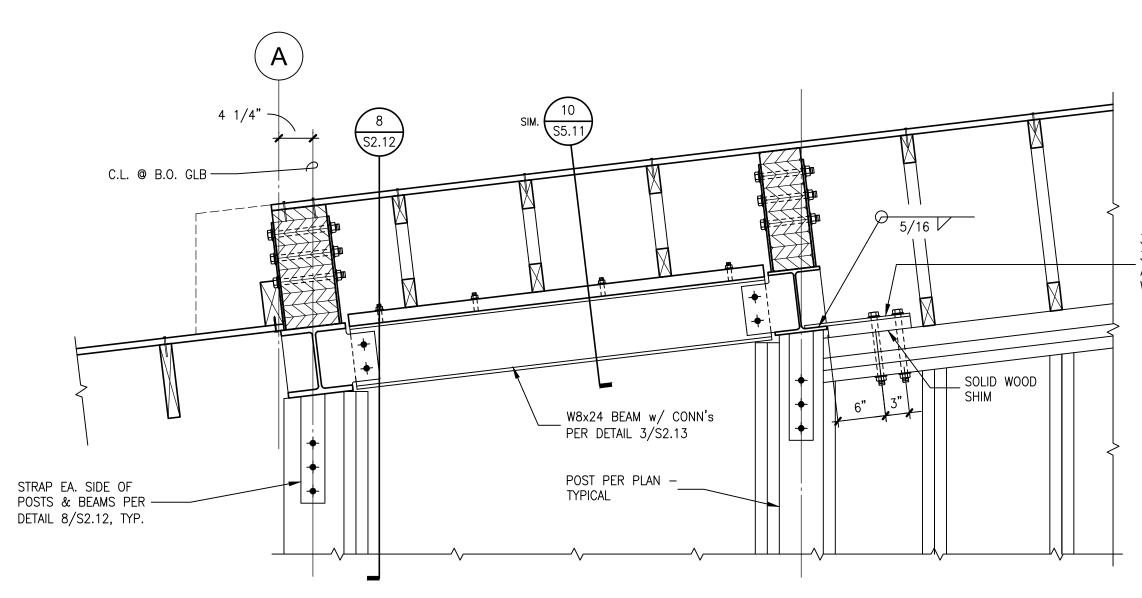


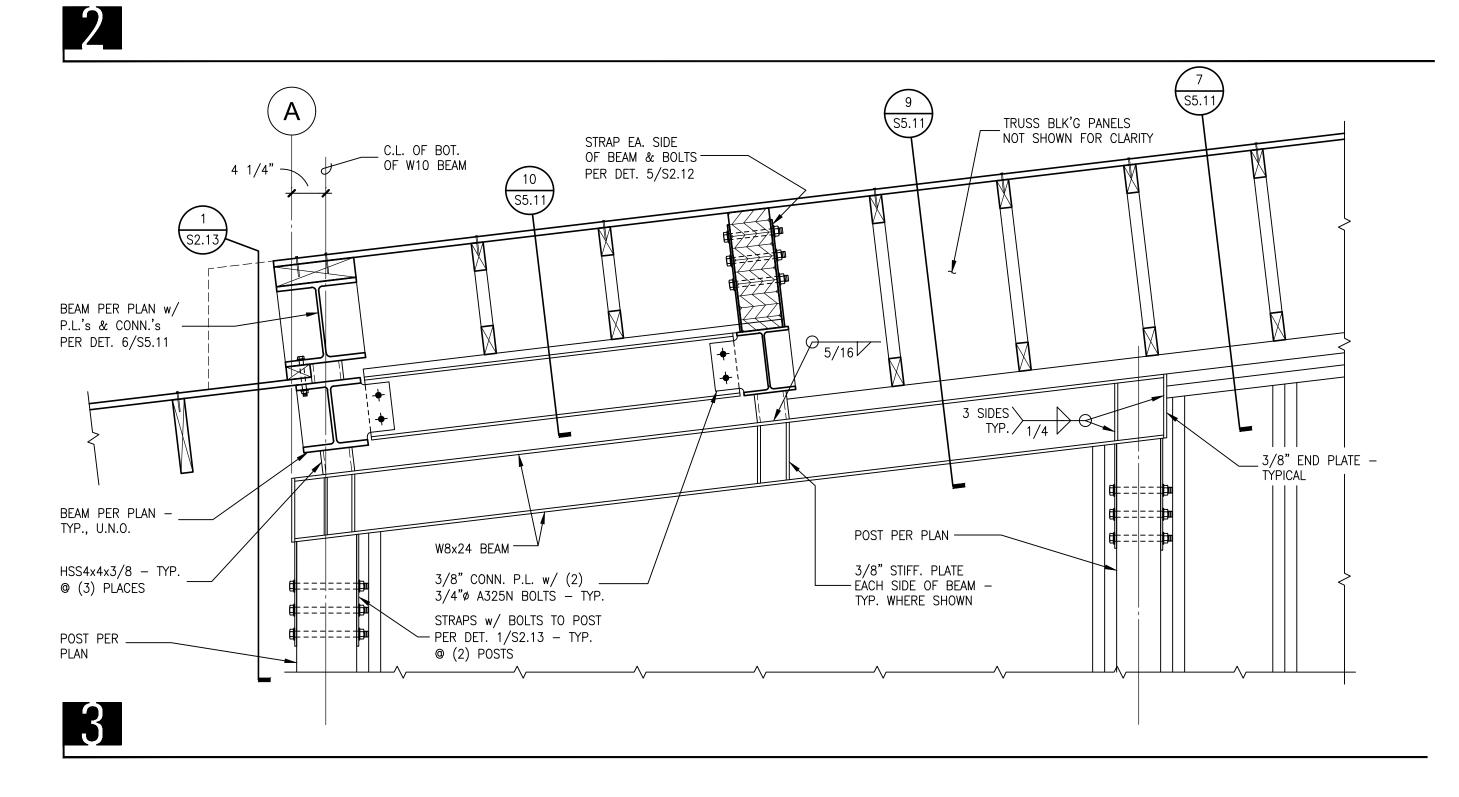


VARIES scale









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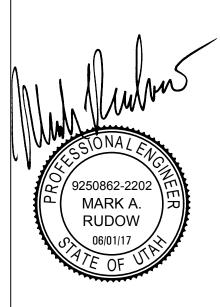
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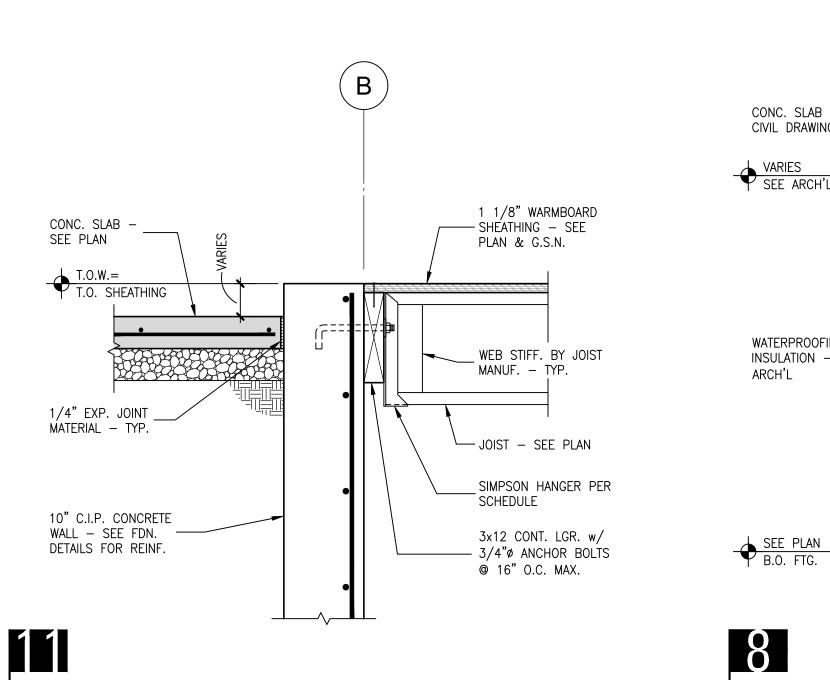


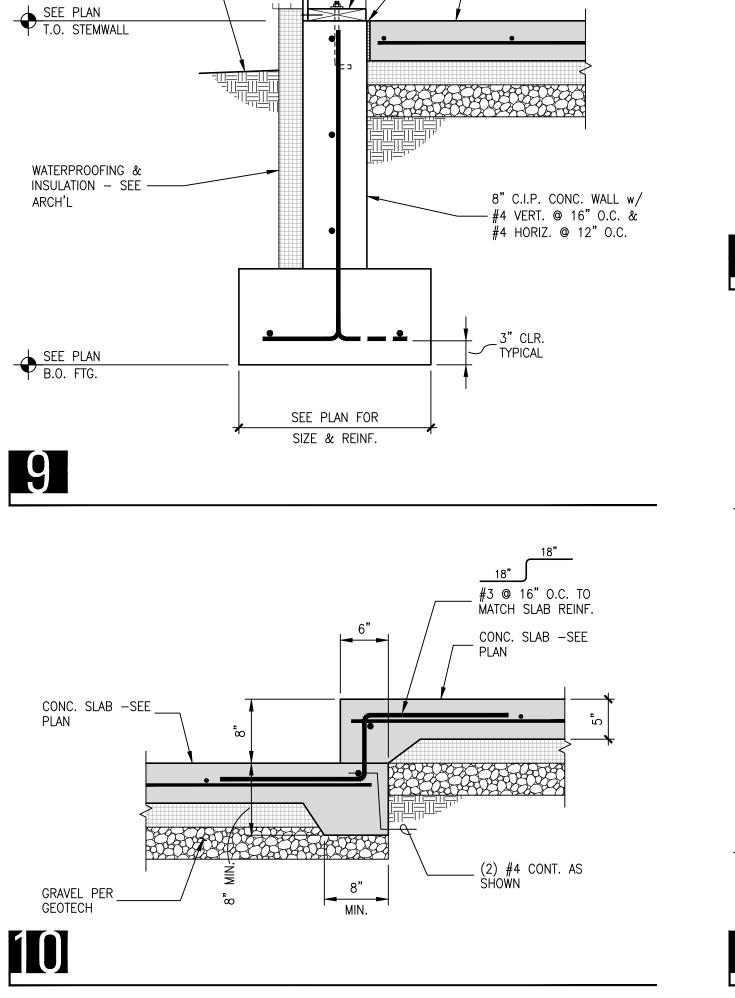


VARIES scale

PERMIT SET phase / rev 2017.06.01 date

3/8" x 4" WIDE STRAP w/ (2) _____3/4"ø THRU–BOLTS TO WALL PL. ASSEMBLY. SLOT AROUND BEAM WEB STIFF. PLATE





SEE ARCH'L WINDOW SILL

SHEARWALL SHEATHING

FIN. GRADE – SEE CIVIL _____

PER SCHEDULE

DRAWINGS

WINDOW GLAZING - SEE

(2) 2x8 CONT. TOP PLATE

2x8 STUDS @ 16" O.C.

2x8 SILL PLATE w/ 1/2"ø

— J-BOLTS @ 16" O.C. MAX.

w/ 5" MIN. EMBED.

1/4" EXP. JOINT MATERIAL – TYP.

SEE PLAN

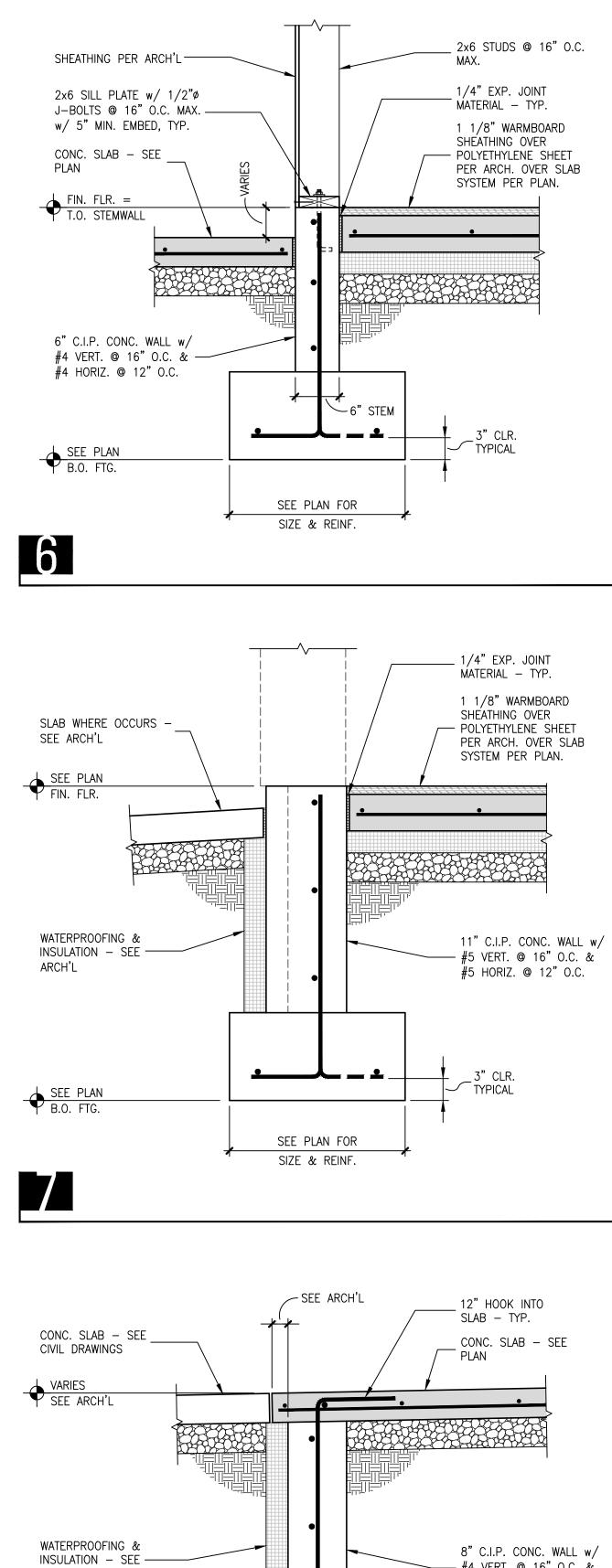
CONCRETE SLAB OVER

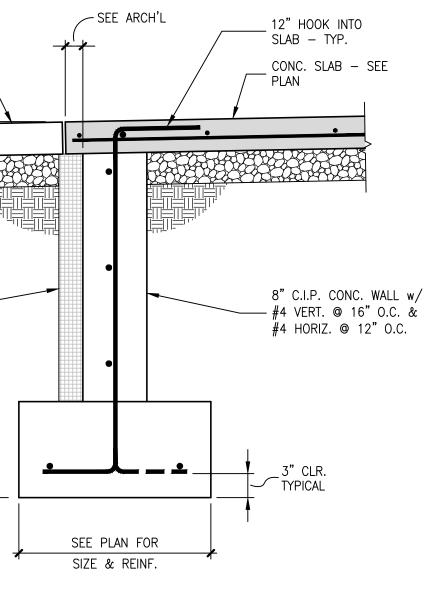
— INSULATION PER ARCH'L –

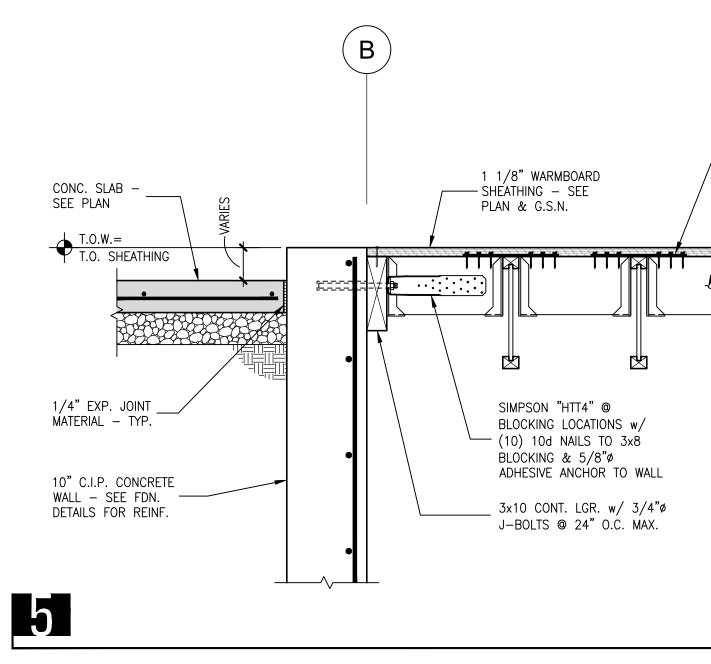
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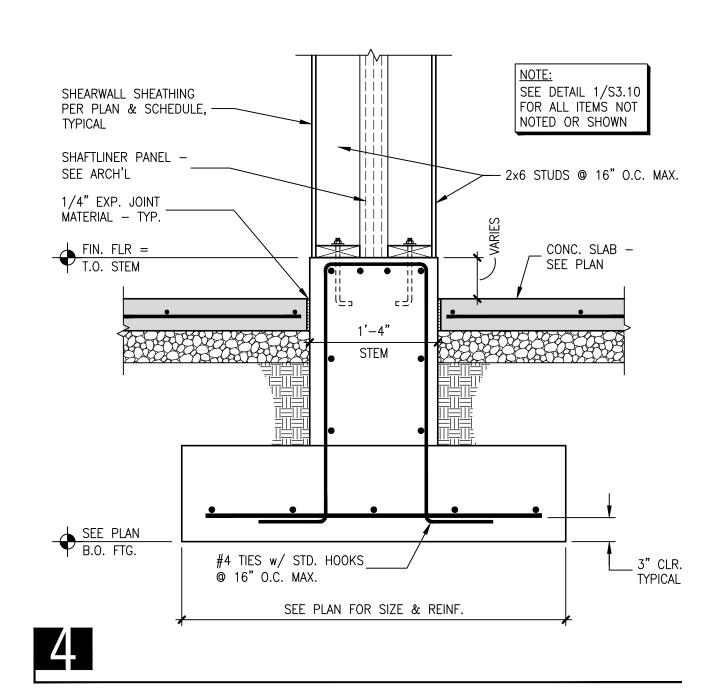
ARCH'L

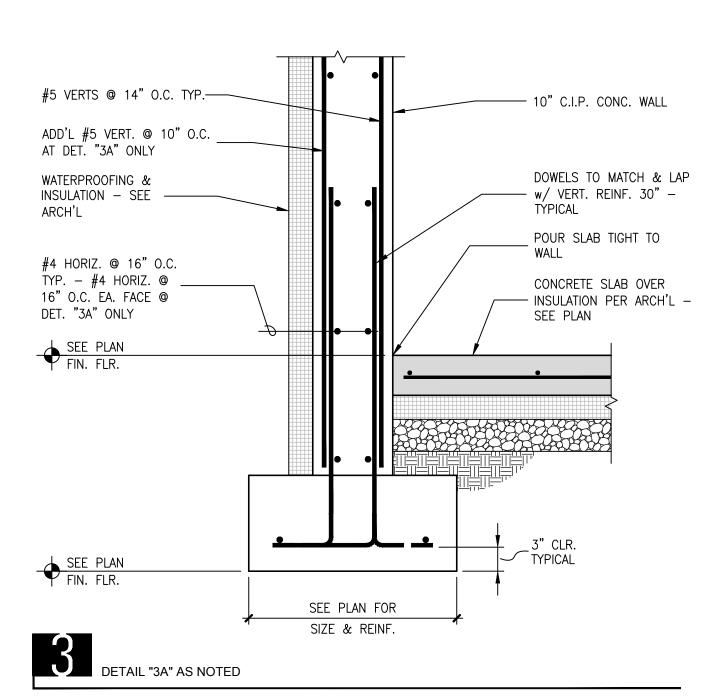
MAX.

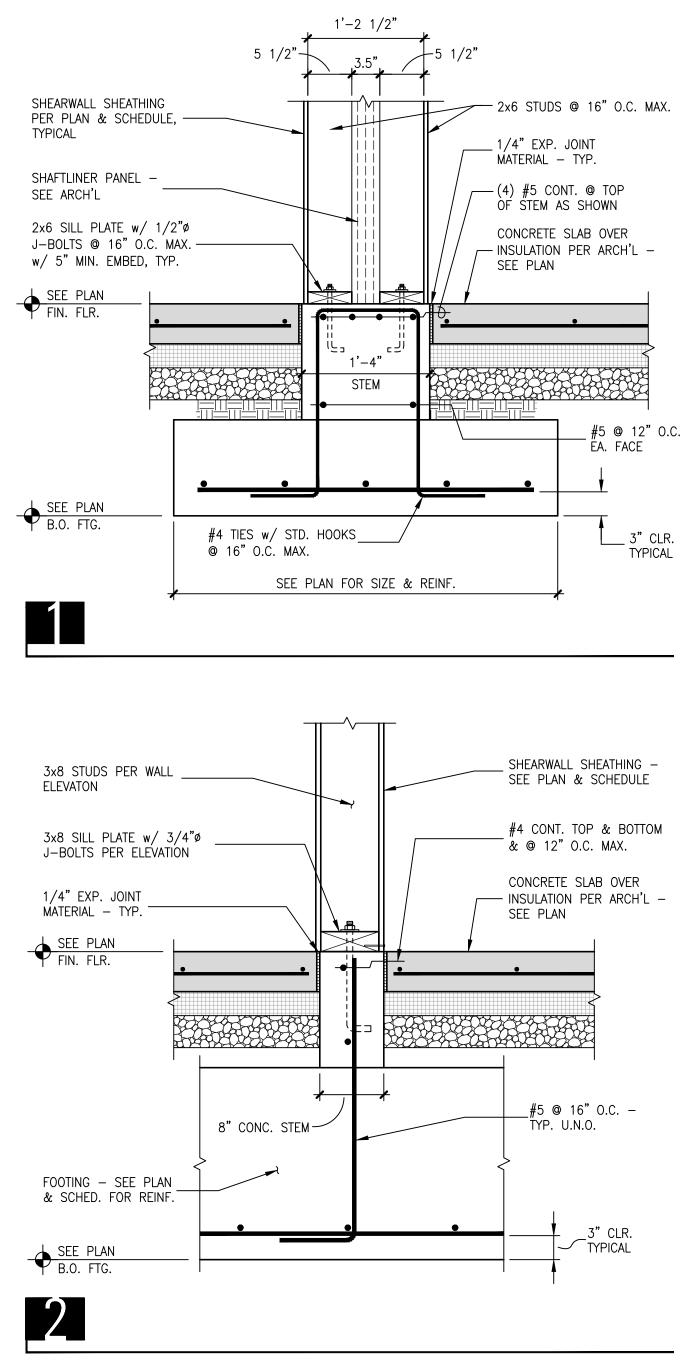


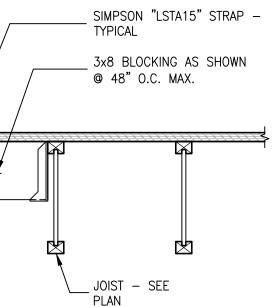


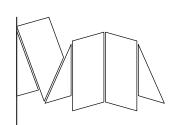












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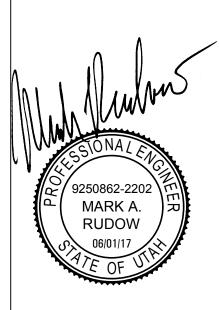
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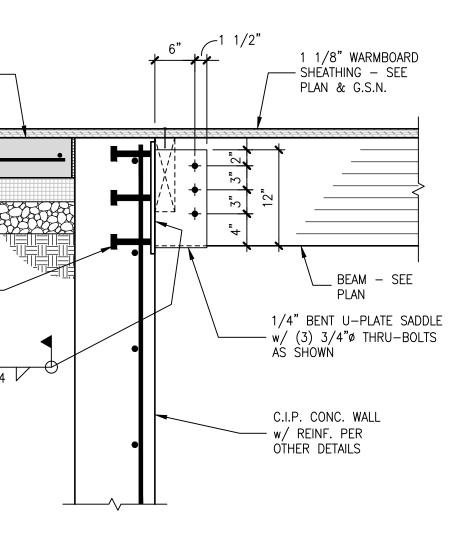


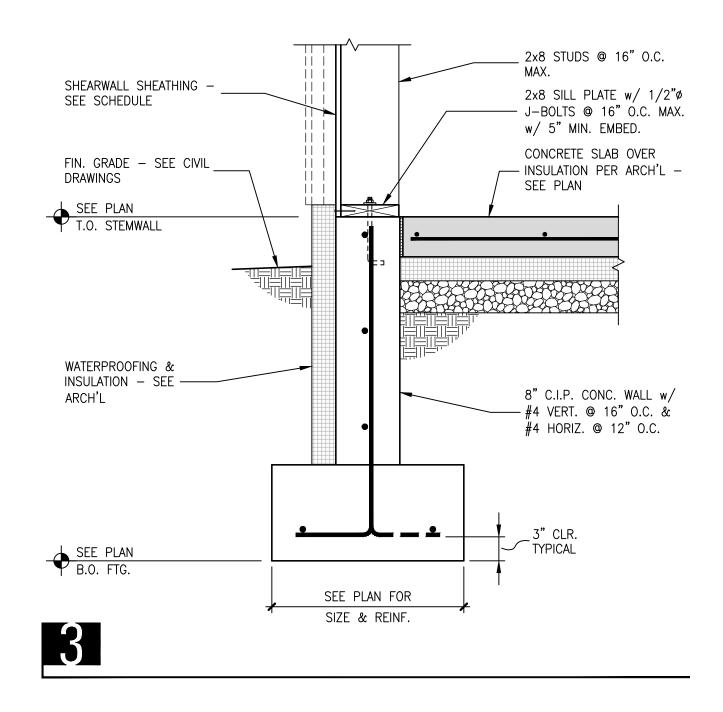
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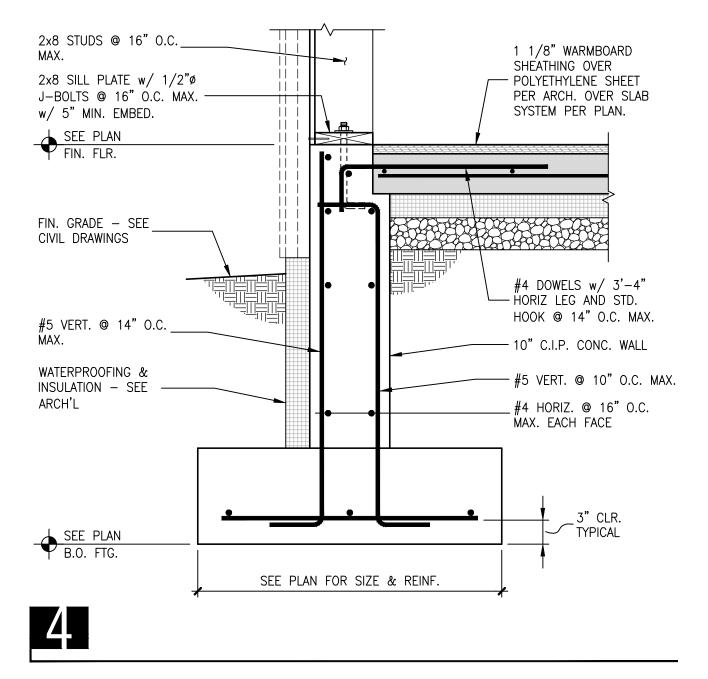


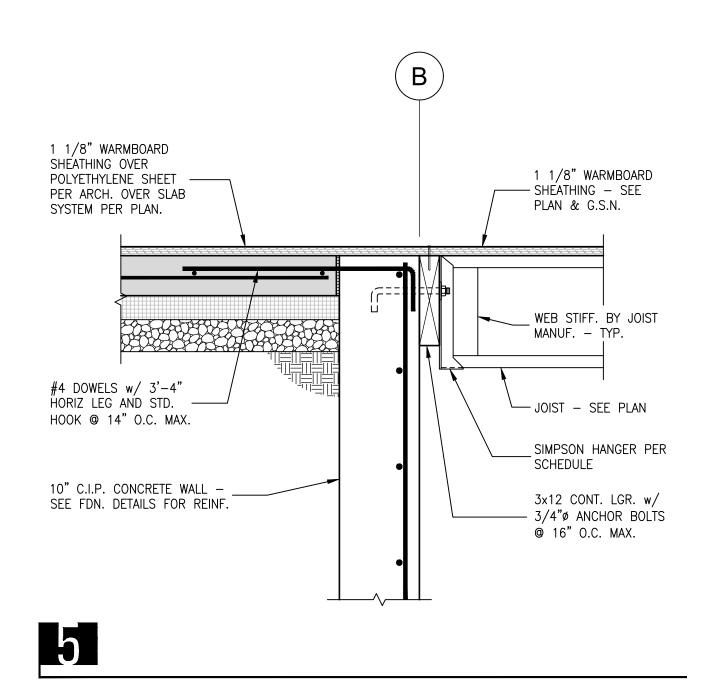
| CONCRETE SLAB OVER INSULATION PER ARCH'L — — SEE PLAN |
|--|
| • |
| |
| ' 1/2" x 8" WIDE x 14" HIGH EMBED PLATE w/ (6) 3/4"ø x 5" HEADED STUDS |
| TYP. 1/4 |
| |

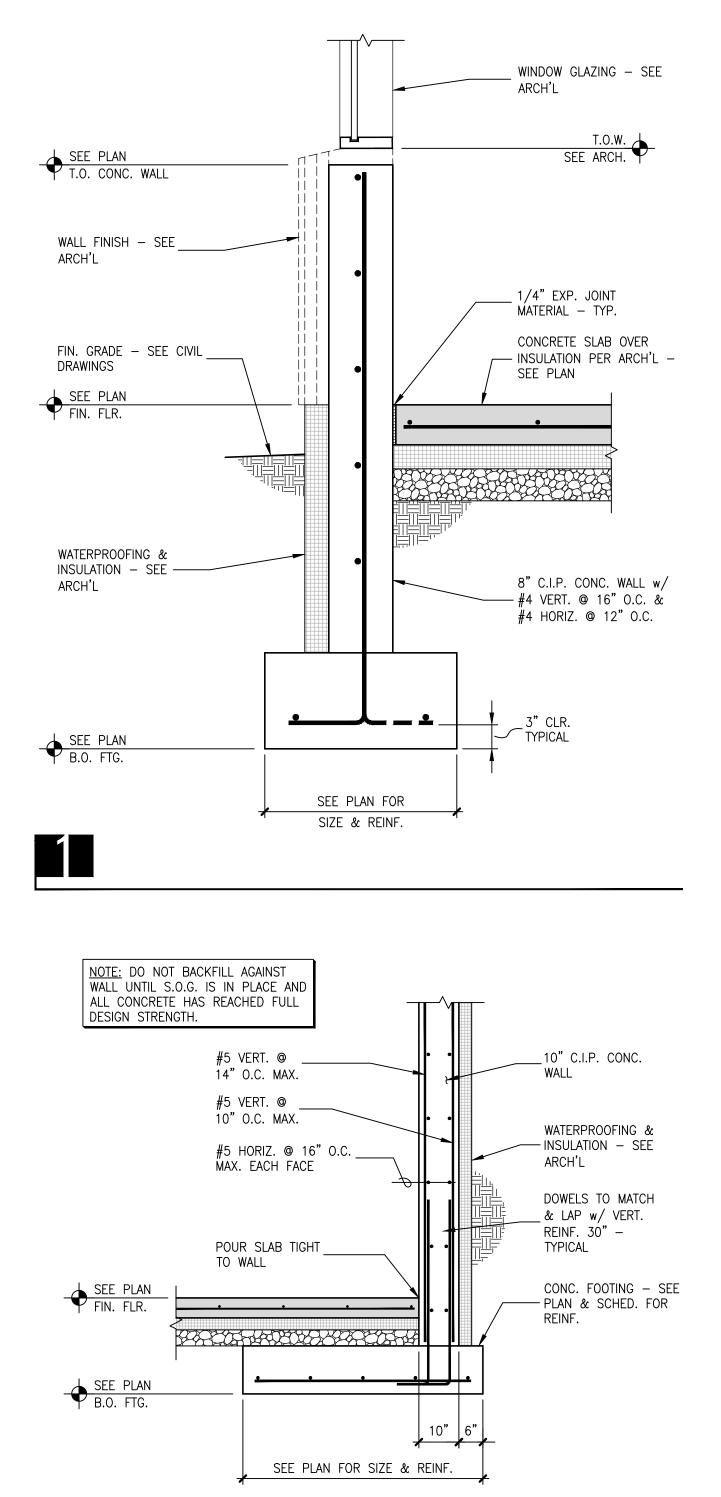












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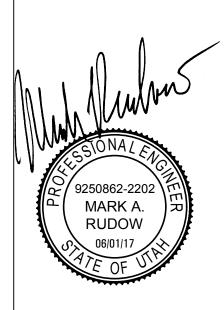
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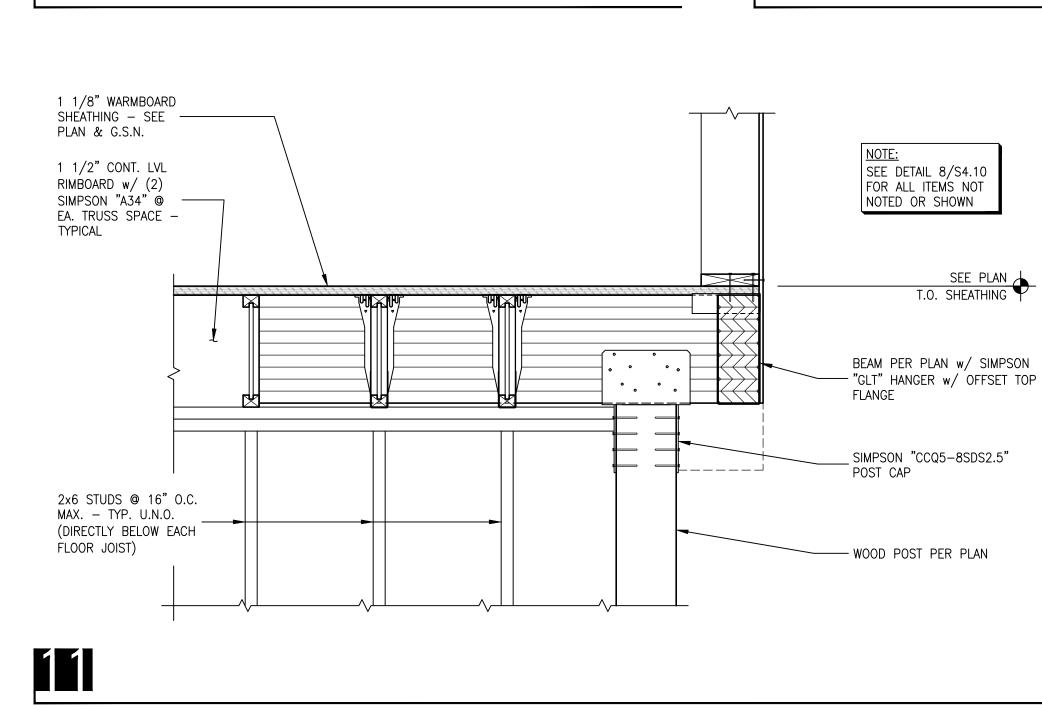
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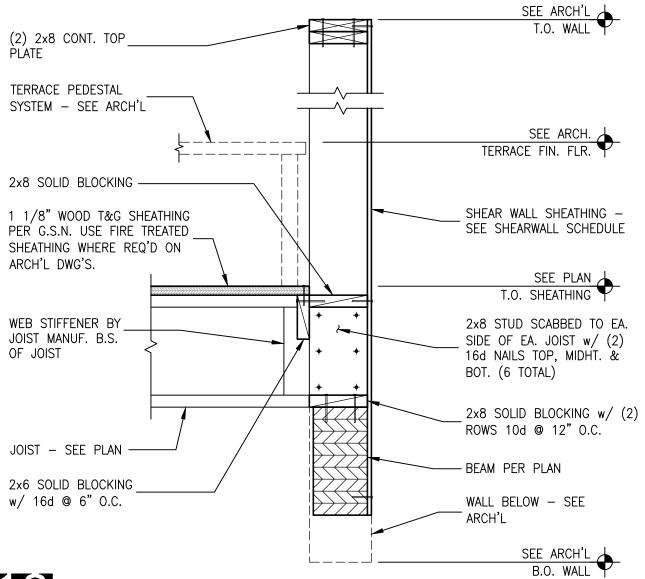
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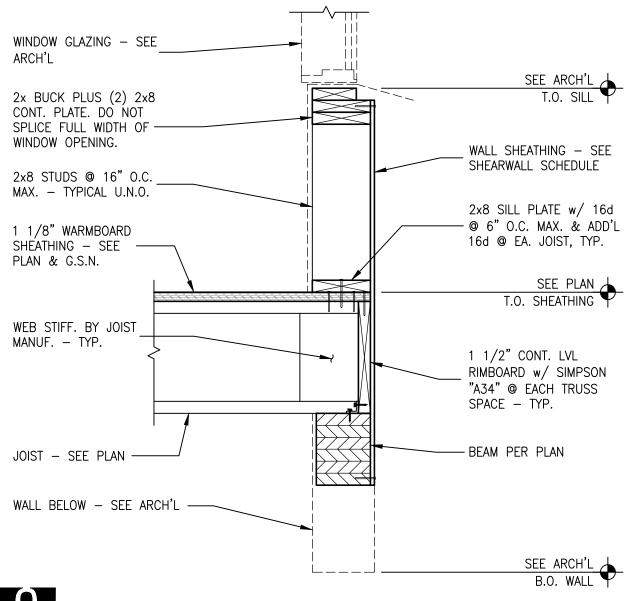


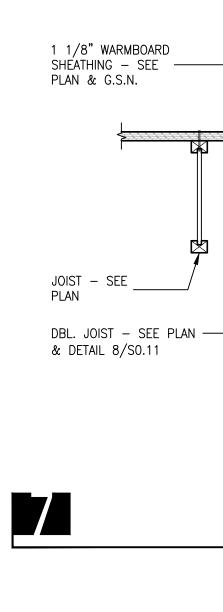
VARIES scale





9





SEE ARCH'L T.O. WALL

WALL SHEATHING -

2x8 SILL PLATE w/

16d @ 8" O.C. MÁX.

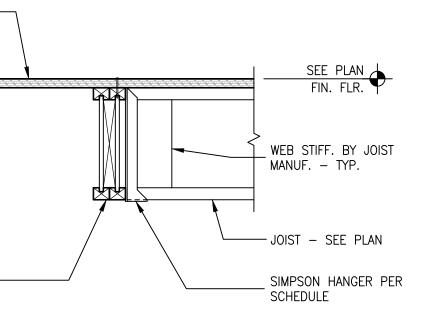
SEE PLAN T.O. SHEATHING

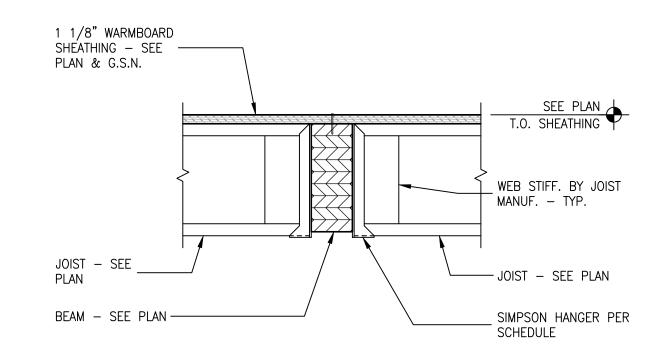
BEAM PER PLAN -

SEE ARCH'L SOFFIT

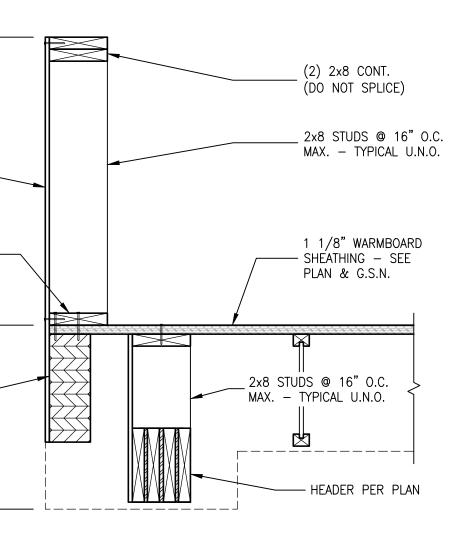
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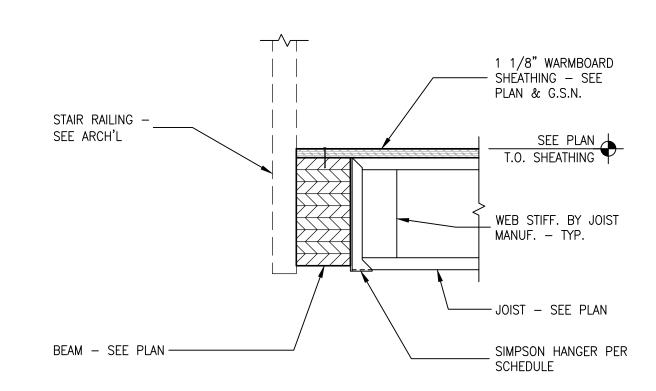
SEE ARCH'L



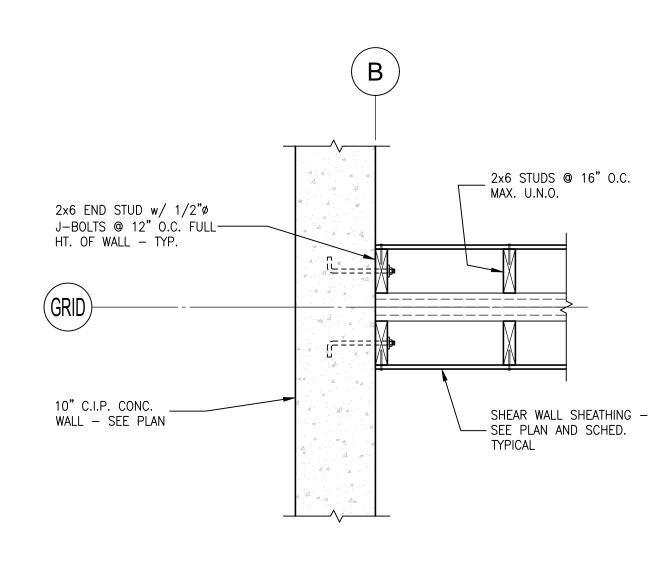


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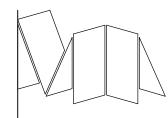




5



6



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sma project no. **16-101**

sma project name POWDERCAT

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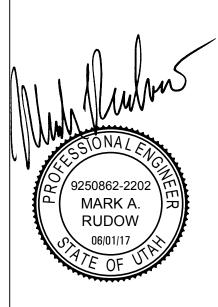
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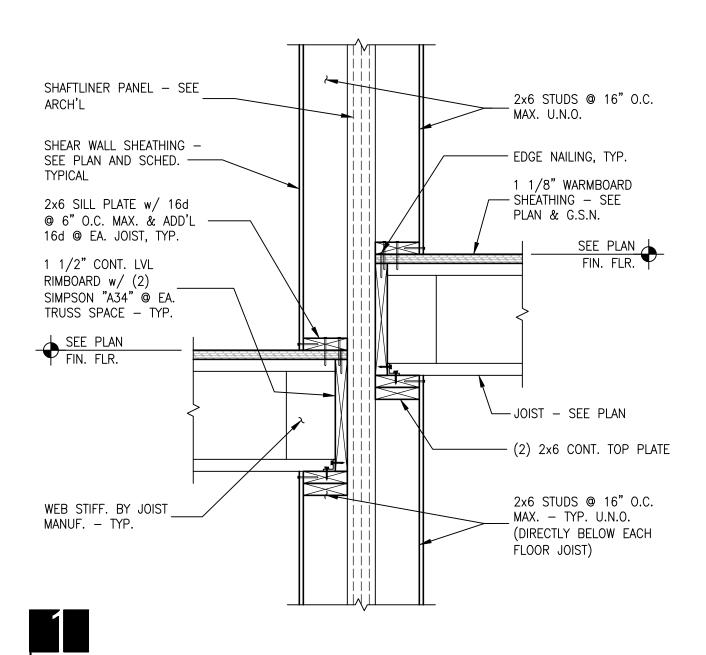
LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

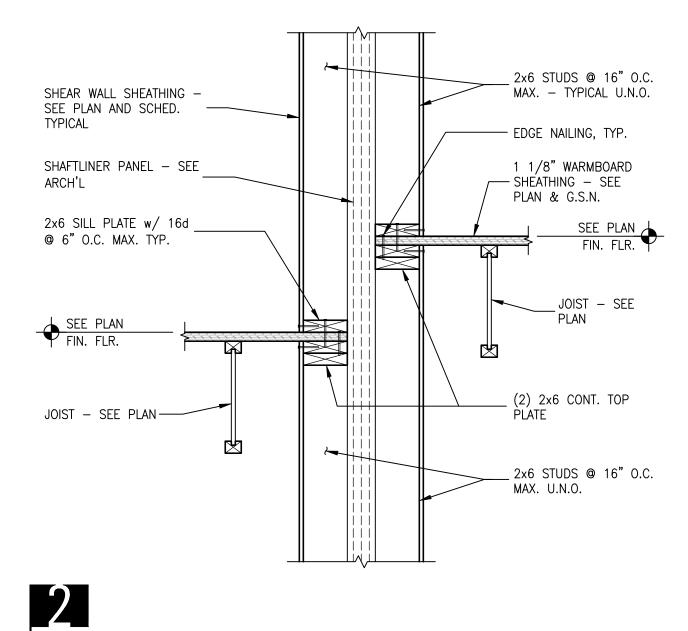


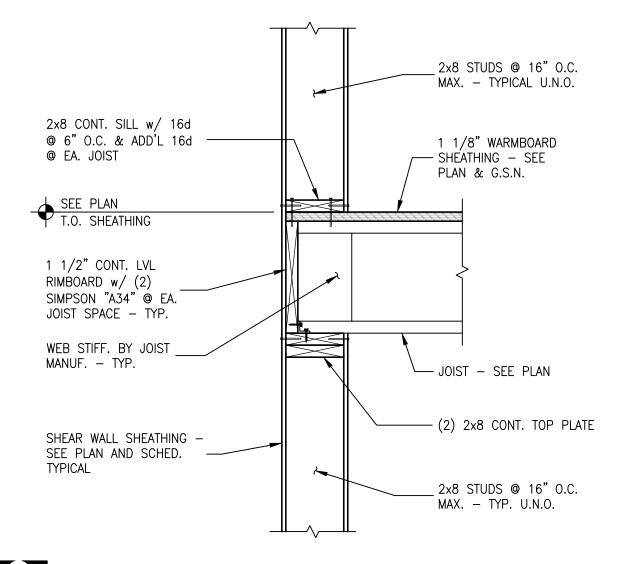


VARIES scale

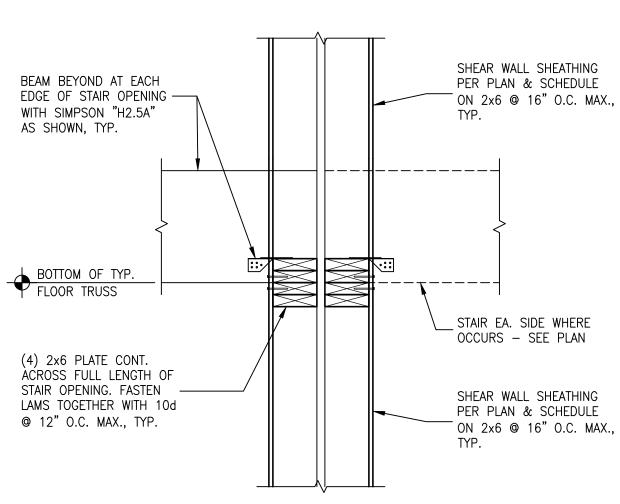
PERMIT SET phase / rev 2017.06.01 date



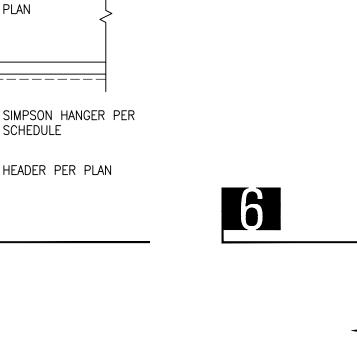


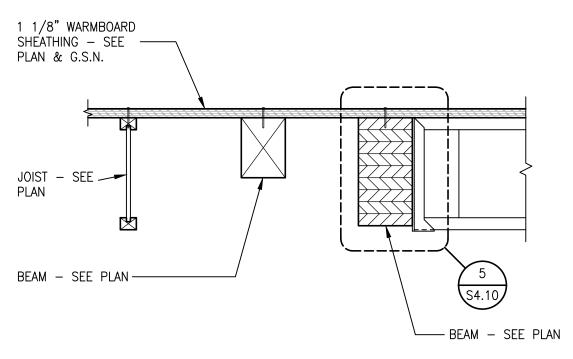


3



 \gg







SEE ARCH'L T.O. WALL

ARCH'L

WALL SHEATHING - SEE

2x8 SILL PLATE w/ 16d ____

@ 8" O.C. MAX.

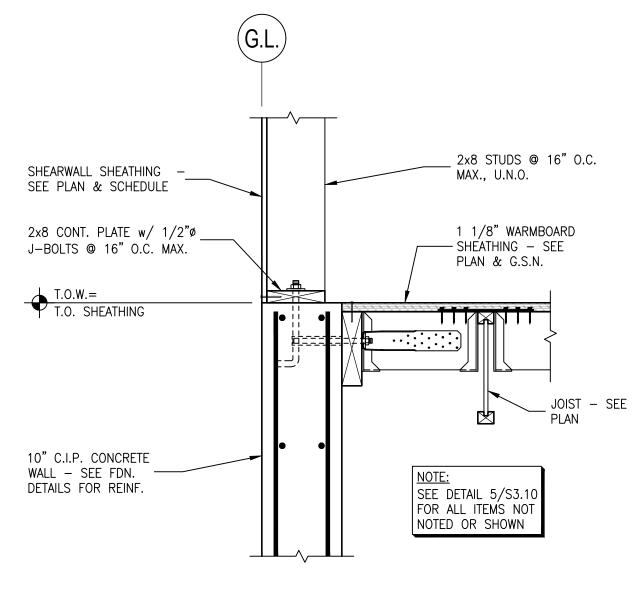
↓ T.O. SHEATHING

BEAM PER PLAN -

SEE PLAN

SEE ARCH'L SOFFIT

9





(2) 2x8 CONT. (DO NOT

2x8 STUDS @ 16" O.C.

MAX. – TYPICAL U.N.O.

2x8 STUDS @ 16" O.C.

- MAX. w/ (2) 2x8 CONT.

1 1/8" WARMBOARD

SHEATHING - SEE

PLAN & G.S.N.

_ JOIST – SEE

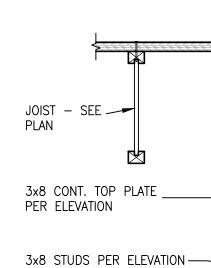
PLAN

SCHEDULE

– HEADER PER PLAN

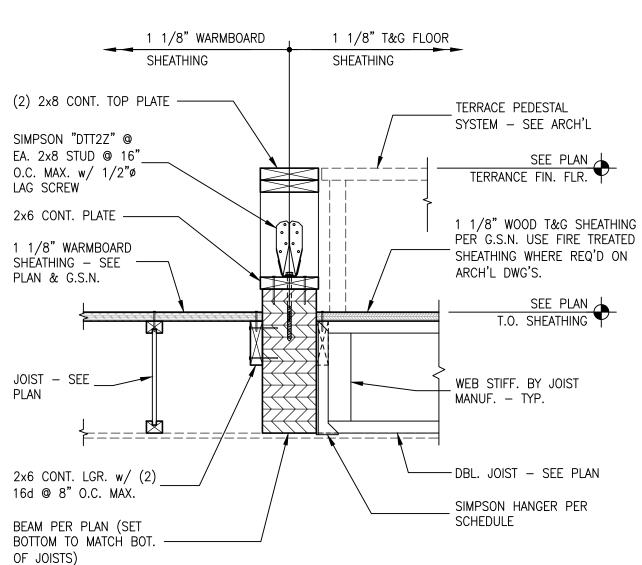
SPLICE)

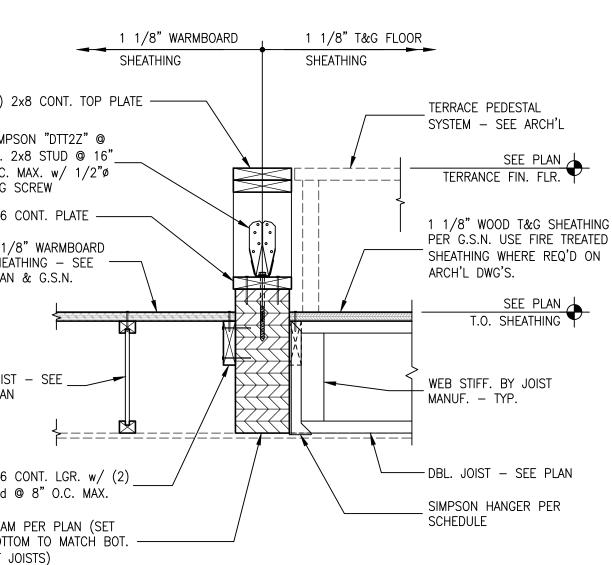
TOP PLATÈ



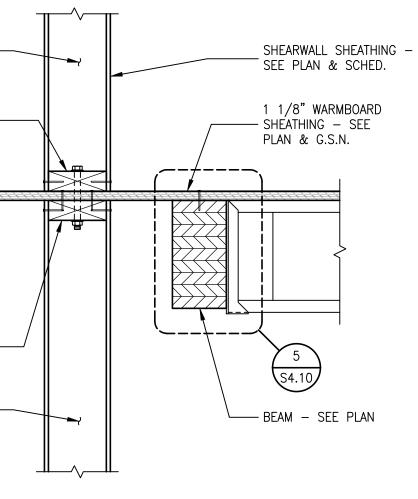
3x8 STUDS PER ELEVATION -

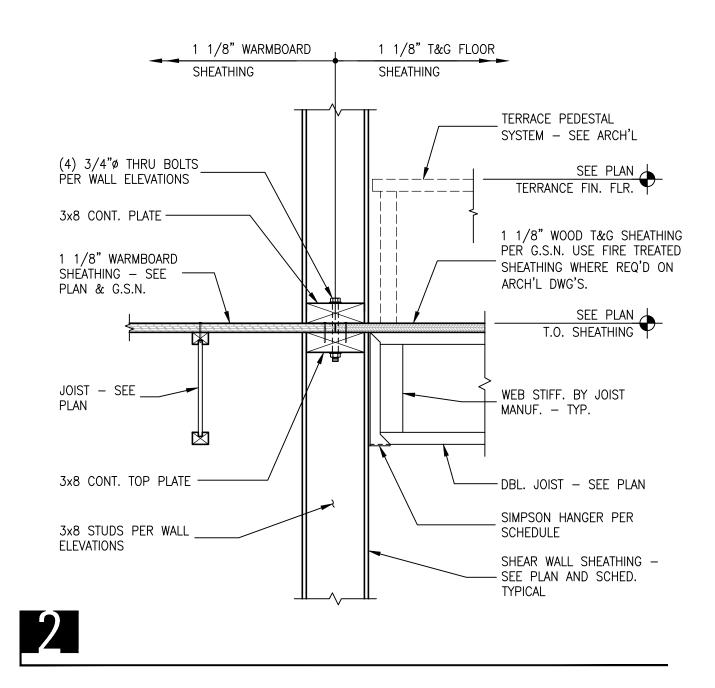
3x8 SILL PLATE PER _ ELEVATION

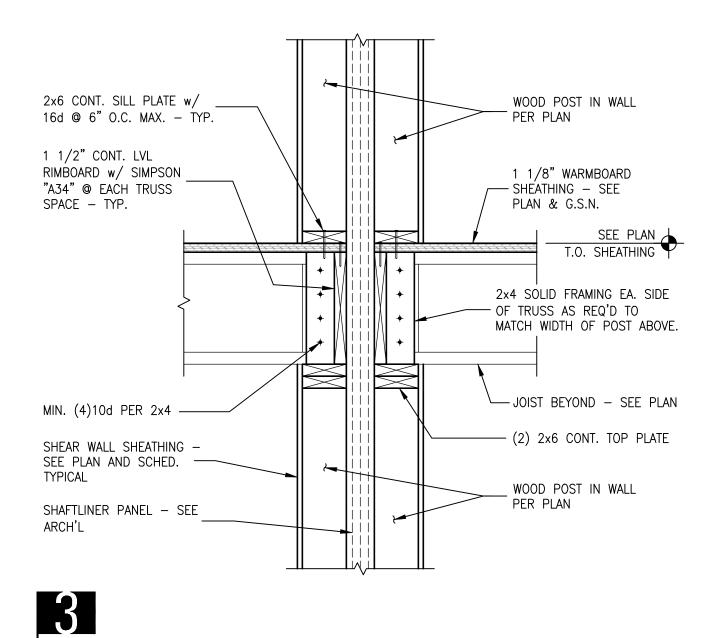


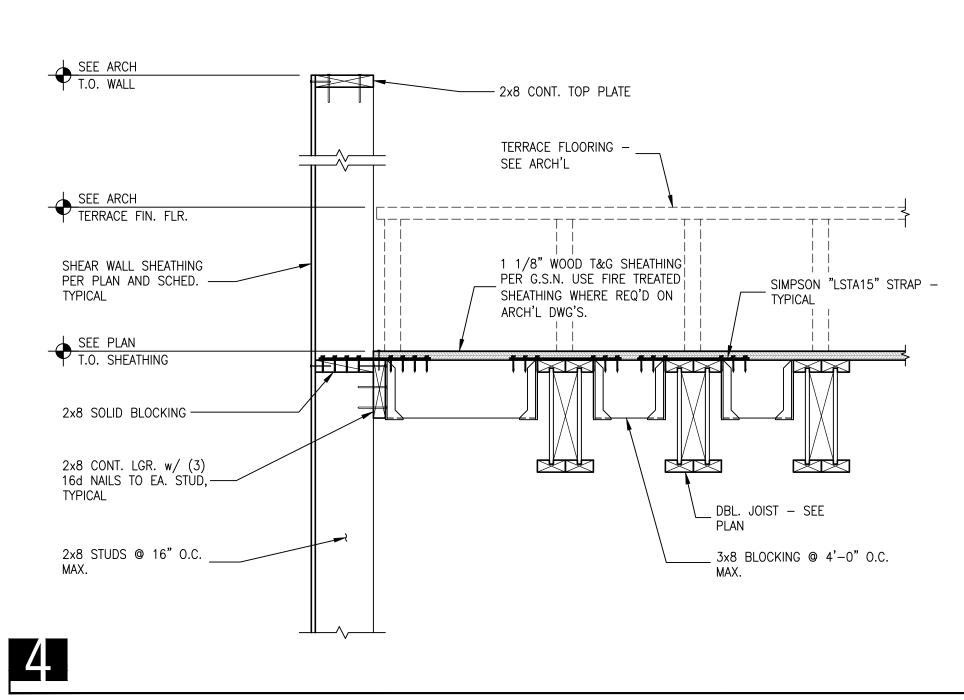


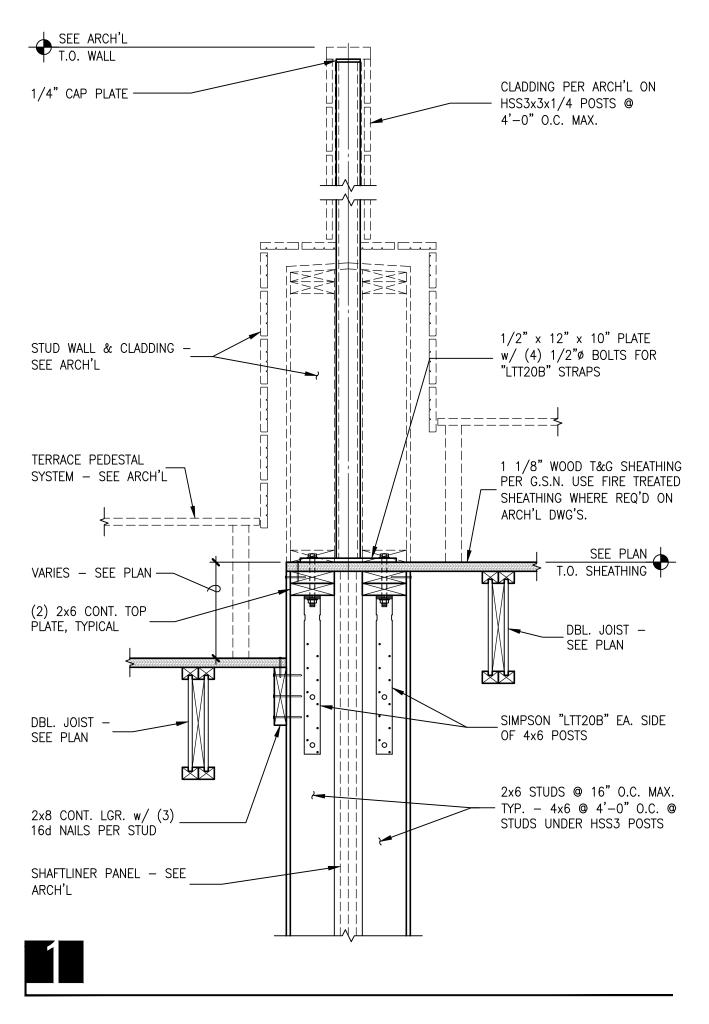
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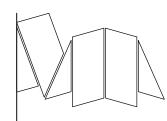












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sma project no. 16-101

sma project name POWDERCAT

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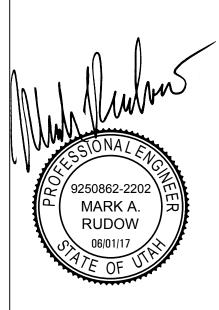
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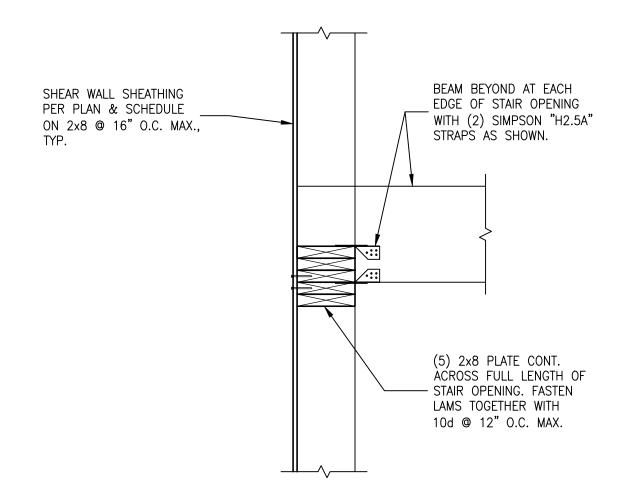
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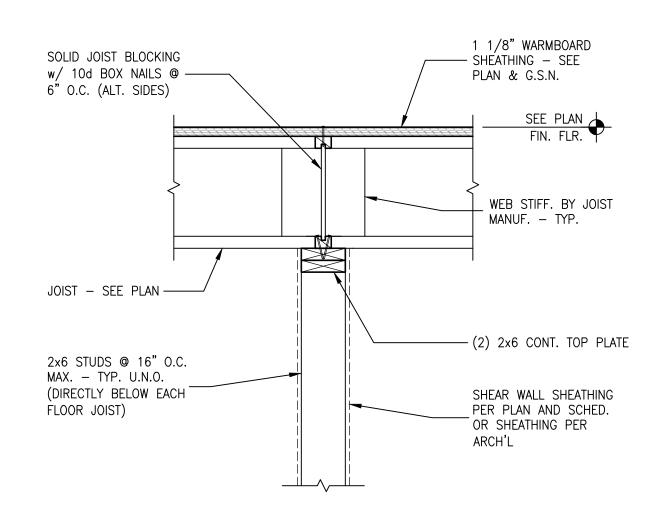


VARIES scale





2



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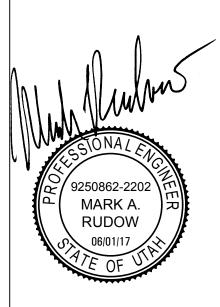
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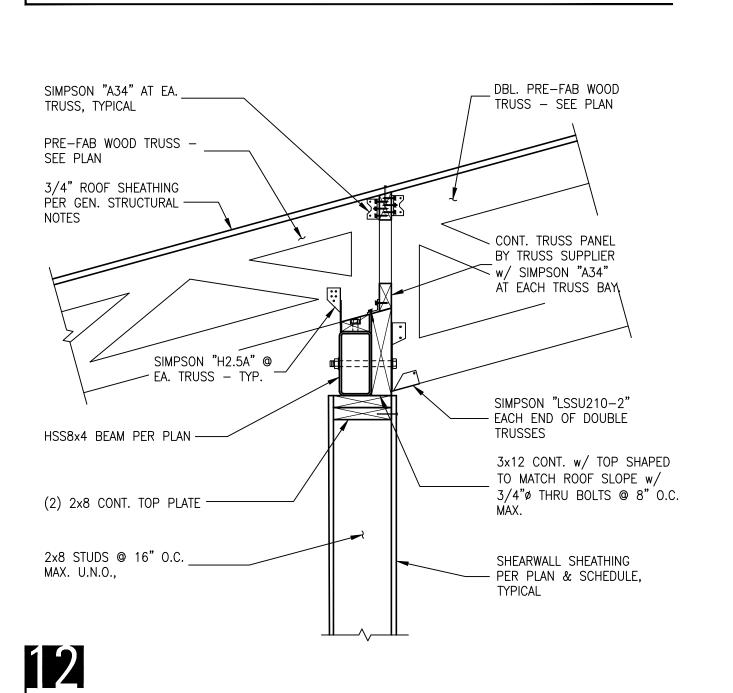
MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

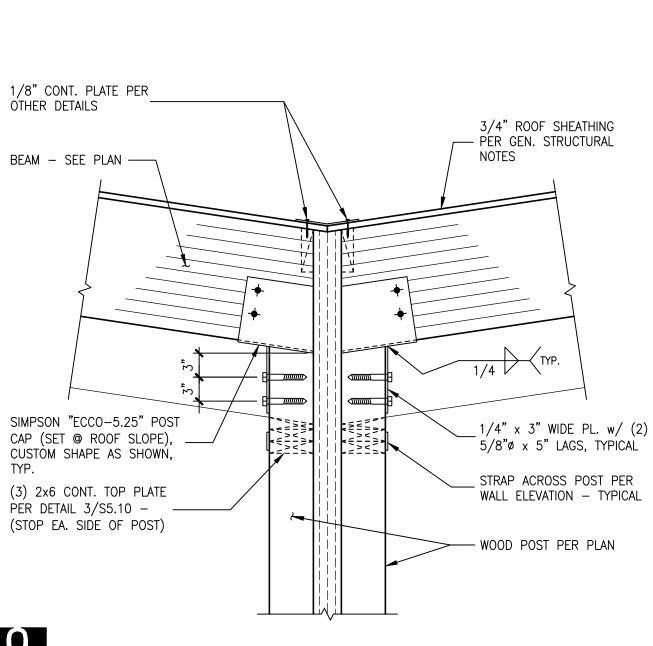
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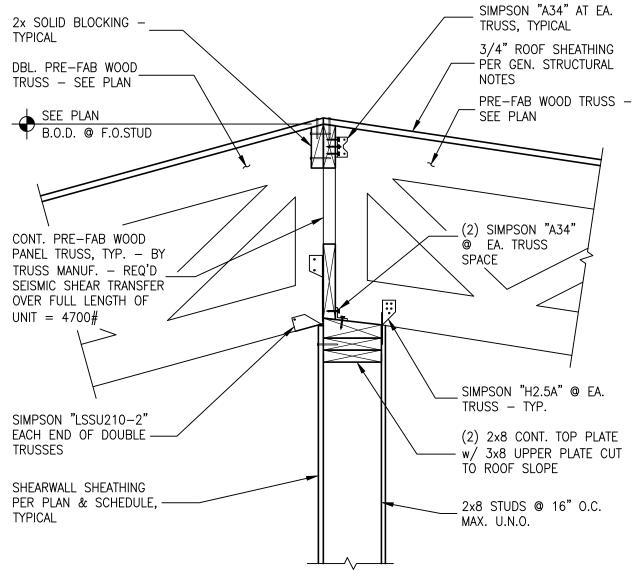


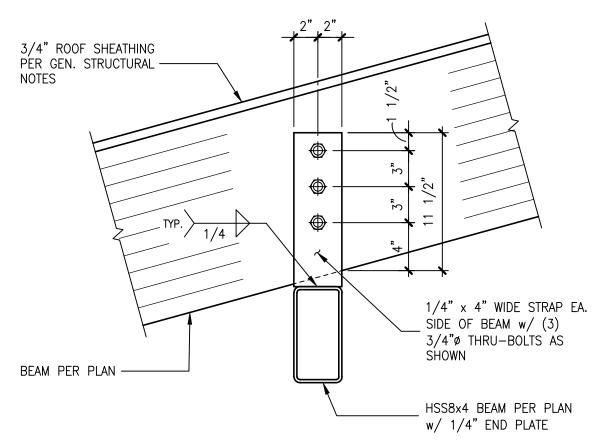
VARIES scale



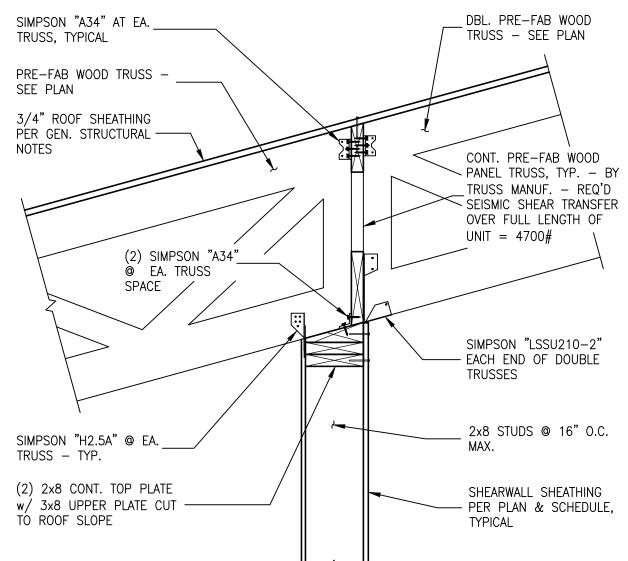


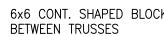


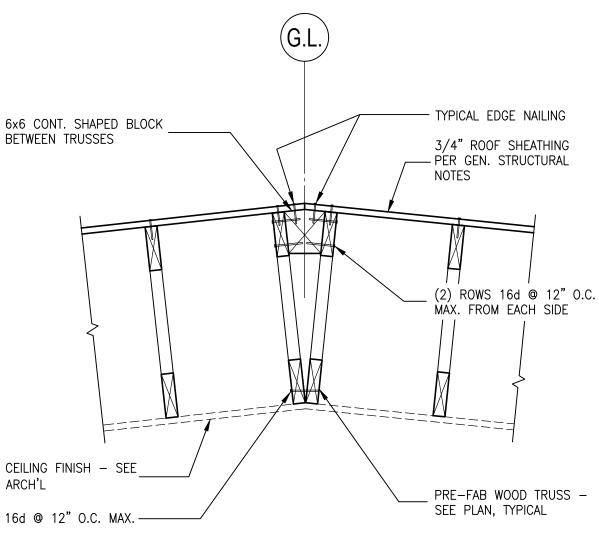


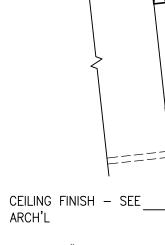


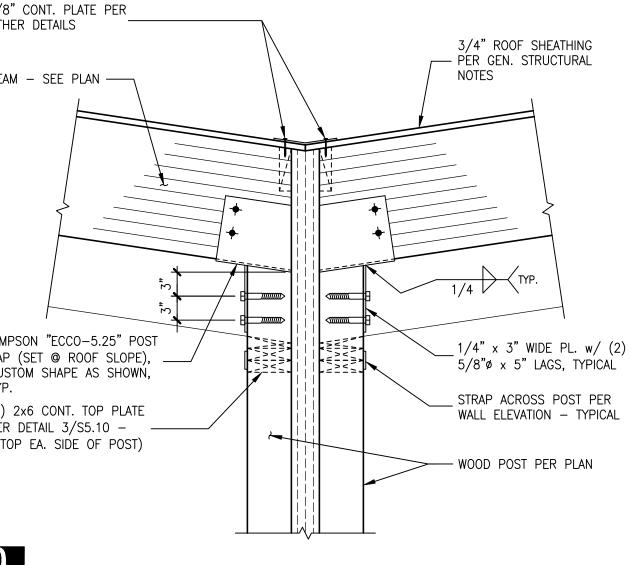




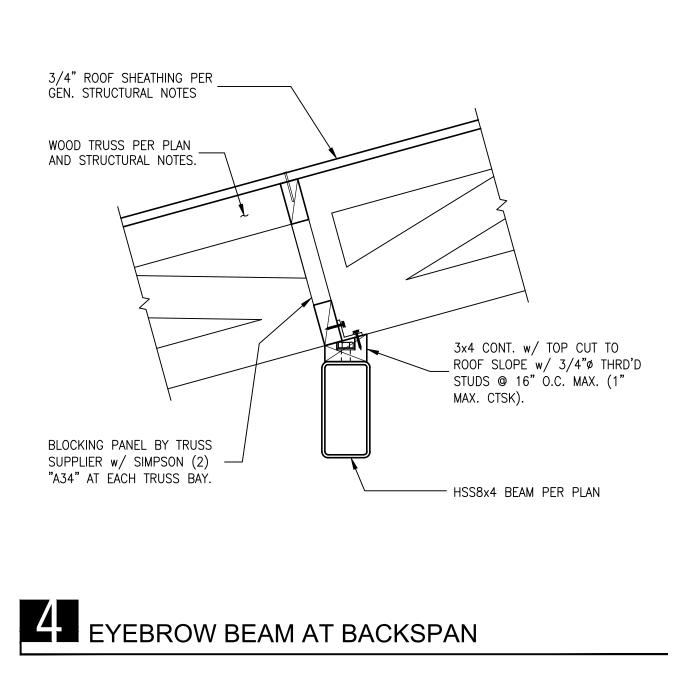




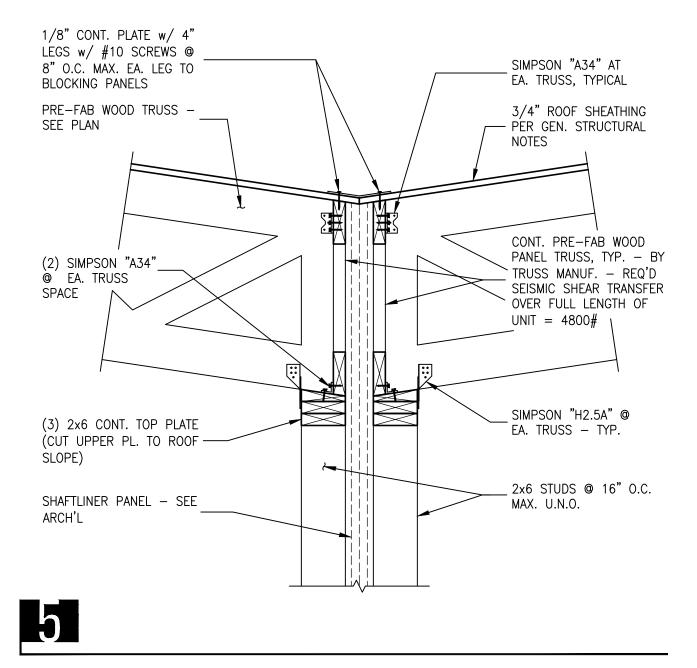


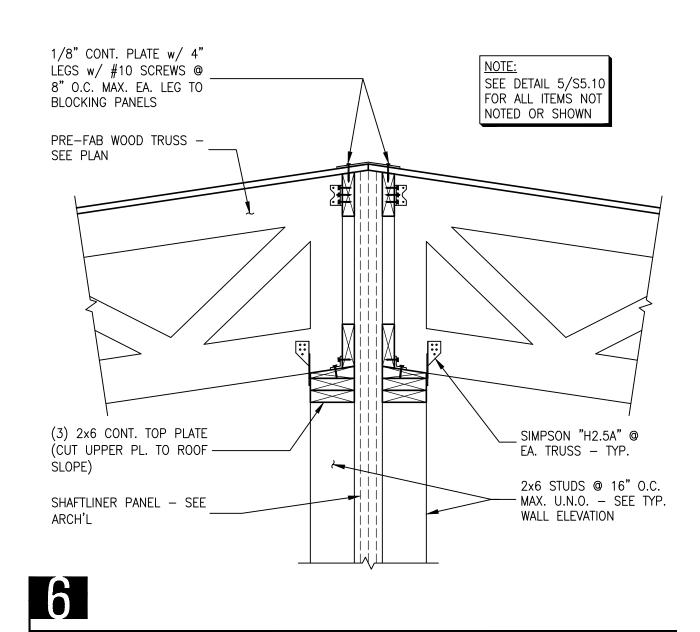






EYEBROW BEAM AT BACKSPAN BEAM CONN.







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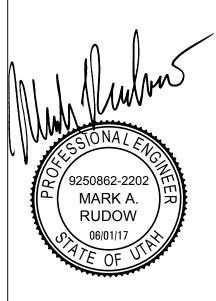
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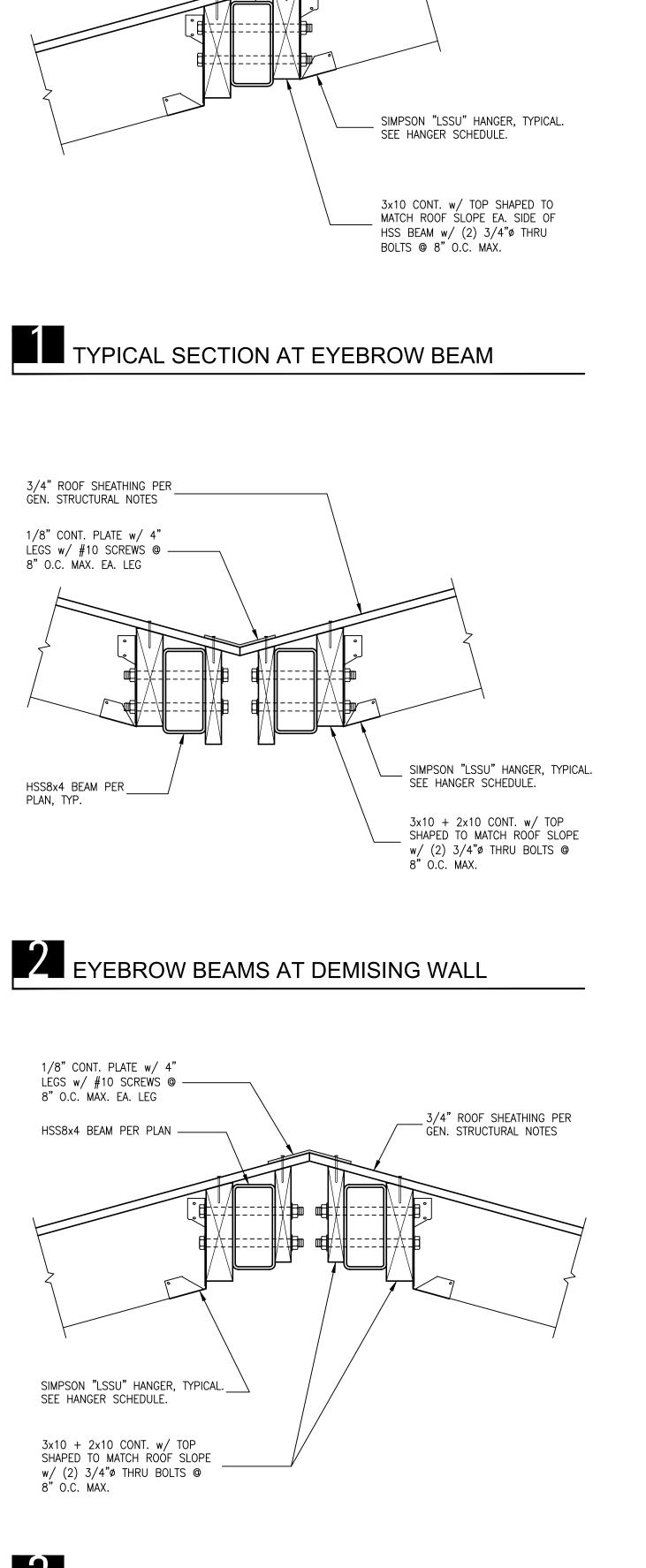
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VARIES scale

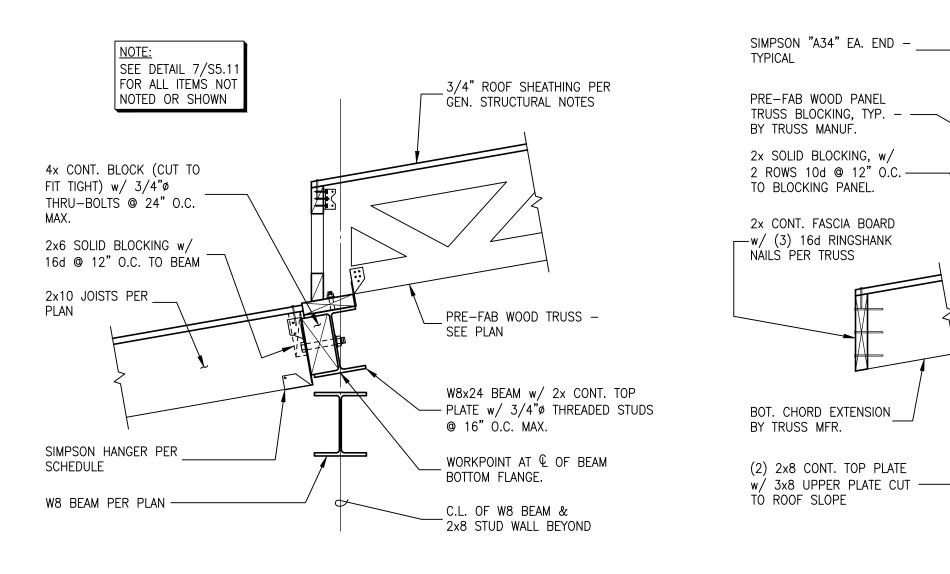
PERMIT SET phase / rev **2017.06.01** date



3/4" ROOF SHEATHING PER _ GEN. STRUCTURAL NOTES

HSS8x4 BEAM PER PLAN _____

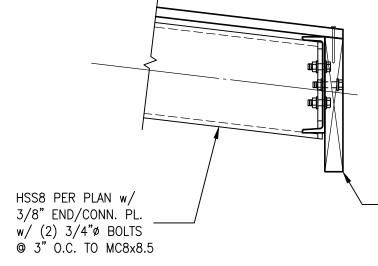
B EYEBROW BEAMS AT DEMISING WALL



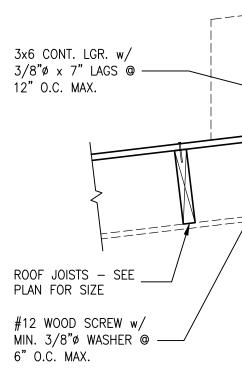
ÍÍ

2 ROWS EDGE NAILING -----

7



2x FASCIA PER ARCH. w/ 1/2"ø THRU BOLTS TO MC8x8.5





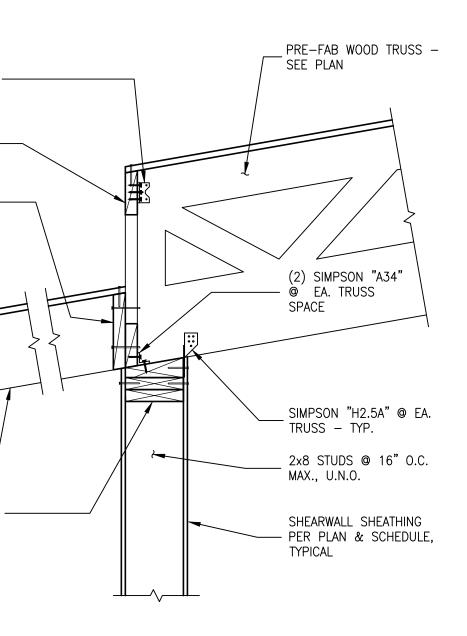
NOTE: SEE DETAIL 7/S5.11 FOR ALL ITEMS NOT NOTED OR SHOWN

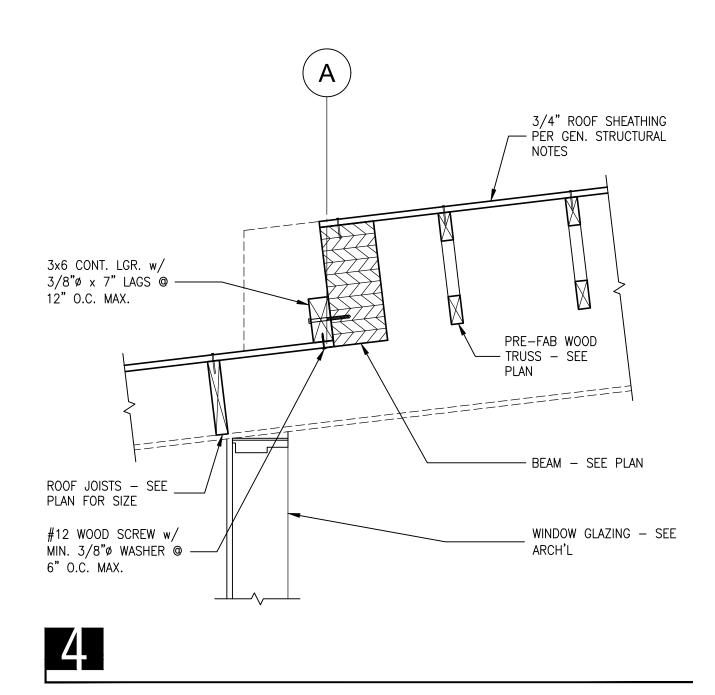
EYEBROW EXTENSION ______ BY TRUSS MFR.

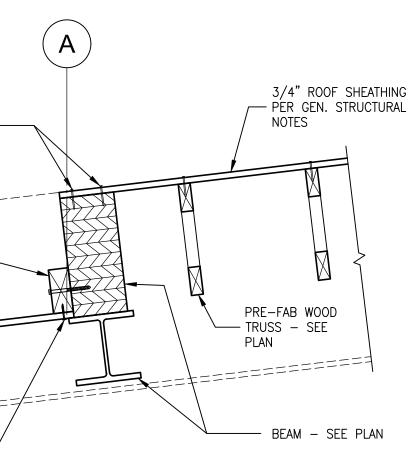
W8x24 BEAM PER PLAN w/ 3x8 CONT. TOP PLATE (CUT TO ROOF SLOPE) w/ 3/4"ø THREADED STUDS @ 24" O.C. MAX.

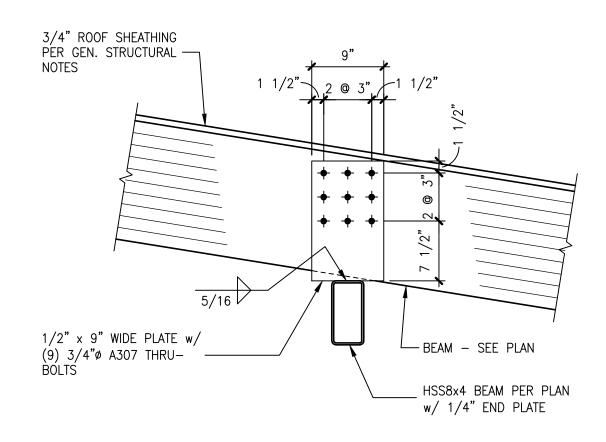




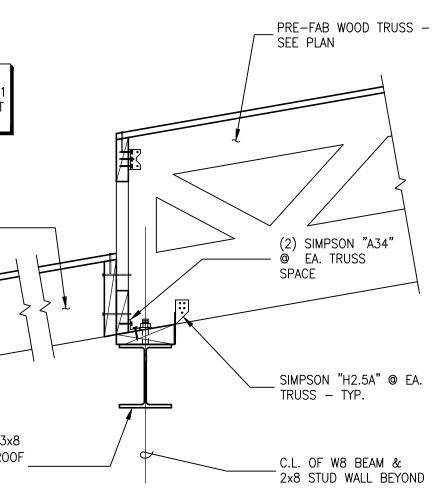


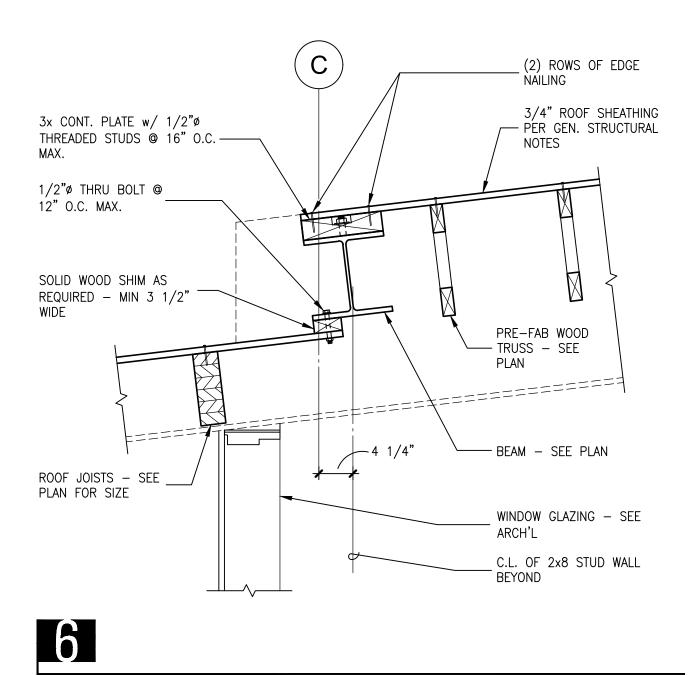


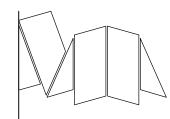












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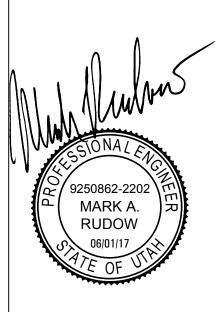
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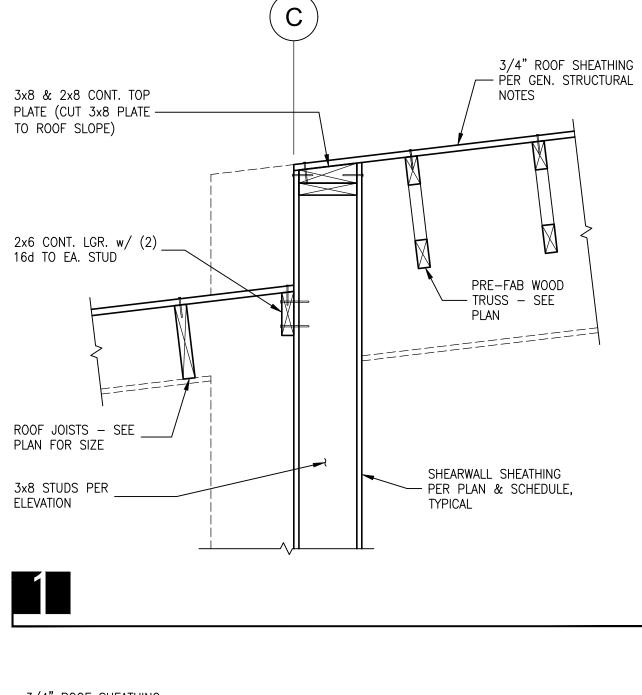
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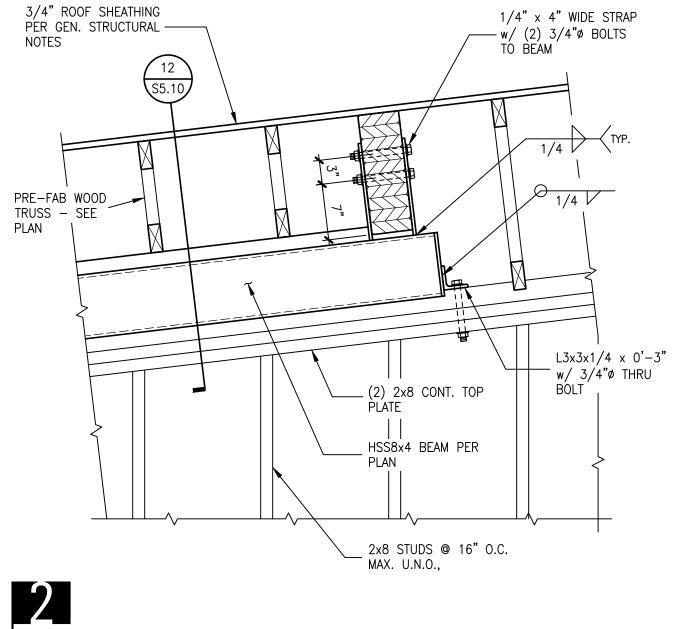
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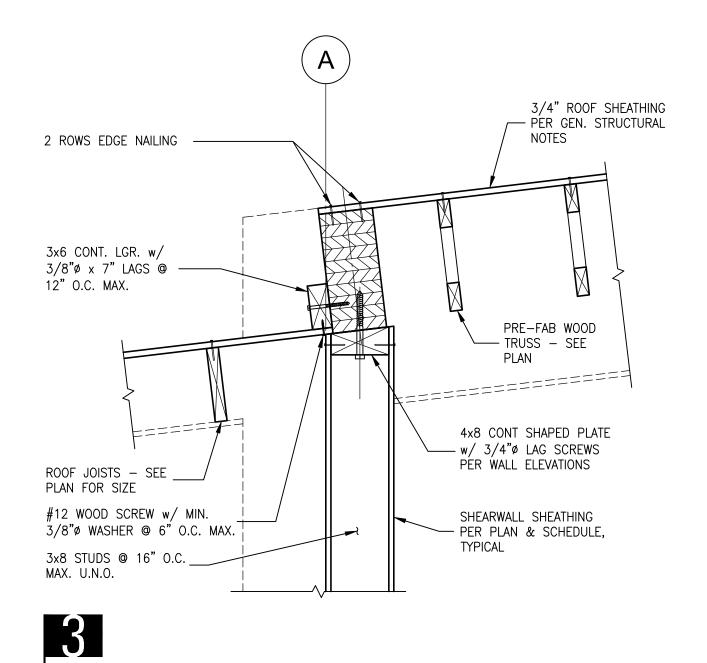




VARIES scale







| RADIANT TUBING SCHEDULE | | | | | | | | | |
|-------------------------|---------------------|-------|---------------|-----------|----------------------|---------------------|--------------|--------------|-----------------|
| UNIT | AREA | LEVEL | MANIFOLD # | LOOP # | FLOOR TYPE | ATTACHMENT | TUBE TYPE | TUBE SIZE | TUBE SPACING |
| | | | π1 | | 4" CONCRETE | IN CONCRETE | | IN 1 (2 | <u>IN</u> |
| TYPICAL | BUNK | LOWER | | 1 | FLOOR | SLAB IN CONCRETE | HEPEX | 1/2 | 12 |
| TYPICAL | BEDROOM 2 | LOWER | 1 | 2 | 4" CONCRETE FLOOR | SLAB | HEPEX | 1/2 | 12 |
| TYPICAL | HALL | ENTRY | 2 | 1 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| TYPICAL | BEDROOM 1 | ENTRY | 2 | 2 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| TYPICAL | BATHROOM | ENTRY | 2 | 3 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| TYPICAL | LIVING ROOM/KITCHEN | UPPER | 2 | 4 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| | | | | | | | | | |
| 124 | BEDROOM 3 | LOWER | 3 | 1 | 4" CONCRETE FLOOR | IN CONCRETE SLAB | НЕРЕХ | 1/2 | 12 |
| 124 | BEDROOM 2 | LOWER | 3 | 2 | 4" CONCRETE FLOOR | IN CONCRETE SLAB | HEPEX | 1/2 | 12 |
| 124 | HALL | ENTRY | 4 | 1 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| 124 | BATHROOM | ENTRY | 4 | 2 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| 124 | BEDROOM 1 | ENTRY | 4 | 3 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| 124 | LIVING ROOM/KITCHEN | UPPER | 4 | 4 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| | | | | | | | | | |
| | | | | | | | | | |
| 133 | BEDROOM 3 | LOWER | 5 | 1 | 4" CONCRETE FLOOR | IN CONCRETE SLAB | HEPEX | 1/2 | 12 |
| 133 | BEDROOM 2 | LOWER | 5 | 2 | 4" CONCRETE FLOOR | IN CONCRETE SLAB | HEPEX | 1/2 | 12 |
| 133 | BEDROOM 1 | ENTRY | 6 | 3 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| 133 | LIVING ROOM/KITCHEN | UPPER | 6 | 4 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| 133 | HALL | ENTRY | 6 | 1 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| 133 | BATHROOM | ENTRY | 6 | 2 | WARMBOARD | WARMBOARD PANEL | HEPEX | 1/2 | 12 |
| | | | | | | | | | |

| | EXPANSION TANK SCHEDULE | | | | | | | | |
|--------|--------------------------------|----------------------|---------|---------------|---------|-------------------|-----------------------|-------------------|---------|
| MARK | MANUF./ MODEL # | SERVICE/ LOCATION | TYPE | CAP'Y GAL. | SYSTEM | DIA. X HEIGTHT | MAX WORK'G PSIG | OPER. WT. LBS. | REMARKS |
| 1,2,3, | ARSTRONG | RADIANT HEAT | BLADDER | 8 | B-1,2,3 | 14X30 | 60 | 55 | _ |
| 4 | ARSTRONG - | SNOW MELT | BLADDER | 8 | B-4 | 14X30 | 60 | 55 | _ |

| | DRYER TYPE | NUMBER OF 90° TURNS (10" RADIUS ELBOWS) | TOTAL DEVELOPED LENGTH OF 4" DIA. <u>RIGID</u> DUCT | UNIT TYPE |
|---------------------------------|--|---|---|--|
| | | 2 | 32 FT. | TYPICAL UNIT |
| | SEE ARCHITECTURAL | 1 | 33.5 FT. | LOT 124 |
| | DRAWINGS FOR ACTUAL MANUFACTURER AND | 3 | 30.5 FT. | LOT 133 |
| | MODEL | | | |
| tl dir fi fi T o | The duct. Provide a recessed drye dryer vent box with dis nstallation. Provide 10" radius smo Tittings. The equivalent length o The label or tag shall to of the exhaust duct co | er hookup venting bo charge vent location oth 45—degree or 90 f the exhaust duct s be located on the wo onnection and shall re | milar fasteners that protr x as manufactured by "E of installed dryer. Coord —degree elbows for all di shall be identified on a pe all of each laundry area w ead as follows: | Z—Flow", or equal. Ali <u>c</u> dinate location prior to ryer exhaust duct ermanent label or tag. |
| To ins | | caused by lint build shall be manufactur | -up in the exhaust duct, er approved (UL Listed) f nelbows. | |

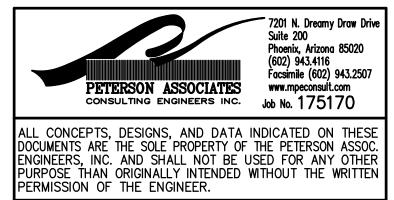
| HOT | WA. | TER | BC | DILE | R S | CH | ED | JLE | (ELI | ECT | RIC) | |
|---------------------------------|---|--|---|---|---|---|---|--|---|--|--|--|
| MANUF./ MODEL # | TYPE | GPM (PSIG) | EWT (F) | LWT (F) | CAP MBH | ĸw | NO. STAG | ES VOLT | ø | | REMARKS | |
| ELECTRO IND EB-MX-10 | . IN FLOOR | 4 .01 | 120 | 140 | 31.0 | 10 | SCF | R 240, | /1 | | _ | |
| ELECTRO IND EB-MX-15 | . IN FLOOR | 5 .01 | 120 | 140 | 51.0 | 15 | SCF | R 240, | /1 | _ | | |
| ELECTRO IND EB-MX-15 | . IN FLOOR | 5 .01 | 120 | 140 | 51.0 | 15 | SCF | २ 240, | /1 | _ | | |
| ELECTRO IND EB-MX-10 | SNOW MELT | 4 .01 | 120 | 140 | 31.0 | 10 | SCF | २ 240, | /1 50 | 1 50% GLYCOL/WATER SOLUTION | | |
| EXHA | UST | · FA | | SCH | EDI | JLE | | | | | | |
| MANUF./ MODEL # | TYPE | CFM | E.S.F | P. WATT | rs vo | DLT Ø | B.D. | D. DRIV | VE OPER. WT. | | REMARKS | |
| GREENHECK SP-A | CEILIN | G 50 | .25 | 20 | 12 | 20/1 | YE | S DIRE | CT 15 | | INTERLOCK WITH MAU-1 | |
| TJERNLUND RMS-160 | IN LIN | IE 160 | 2 | 20 | 12 | 20/1 | YE | S DIRE | CT 15 | SEE | NOTE ON MO.1 FOR TESTING | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| CLEC | | | ARE | UP | | r l | JNI | | | | | |
| MANUF./ MODEL # | CFM | ESP | | 1 | | 1 | | | | R | EMARKS | |
| MARKEL | 150 | .25 | | | 5 | | | | | | ABLE SPEED RLOCK WITH TOILET EF-1'S | |
| MITT=5 | | | | | | | | | | | LUCK WITH TOILET EF-TS | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| GRILL | <u> </u> | REG | IST | ER | <u>& D</u> | IFF | US | ER | SCH | EDU | | |
| MANUF./ MODEL # | DESC | RIPTION | FRAM | E STYL | E FII | NISH | МАТ | ERIAL | DAMPER | MAX. NC | REMARKS | |
| SEIHO TT-6 | s | OFFIT | SURF | | PAIN | ITABLE | A | LUM | BDD | BDD – – | | |
| SEIHO TT-6 | | | SURF | | PAIN | ITABLE | A | LUM | - | | | |
| SEIHO TT-6 | | | SURF | | PAIN | ITABLE | A | LUM | BDD | _ | - | |
| | | | | | | | | | | | | |
| PUMP | > SC | HEC | DULI | E | | | | | | | | |
| MANUF./ MODEL # | SERV | /ICE G | РМ Н | EAD F | | | /OLT/ø | OPER. WT. | | REMARKS | | |
| ARMSTRONG ASTRO | B- | -1 | 4 | 15 1 | 760 | 211 | 120/1 | 10 | | | - | |
| ARMSTRONG ASTRO | B- | -2 | 5 | 15 1 | 760 | 211 | 120/1 | 10 | | | | |
| ARMSTRONG ASTRO | B- | -3 | 5 | 15 1 | 760 | 211 | 120/1 | 10 | | | | |
| ARMSTRONG ASTRO | В- | -4 | 4 | 20 1 | 760 | 211 | 120/1 | 10 | 50 | 50% GLYCOL/WATER SOLUTION | | |
| ARMSTRONG ASTRO | MANIF 1 | OLD . | 1.0 | 20 1 | 760 | 150 | 120/1 | 10 | | | | |
| ARMSTRONG ASTRO | MANIF 2 | | 3 | 20 1 | 760 | 150 | 120/1 | 10 | | | | |
| | | | 1.0 | 20 1 | 760 | 150 | 120/1 | 10 | | | | |
| ARMSTRONG ASTRO | MANIF 3 | | | | | | | | | | | |
| ARMSTRONG | 3 | FOLD | | 20 1 | 760 | 150 | 120/1 | 10 | | | | |
| ARMSTRONG ASTRO ARMSTRONG | MANIF 4 | FOLD | 4 | | | 150 150 | 120/1 120/1 | 10 10 | | | | |
| | EB-MX-10 ELECTRO IND EB-MX-15 ELECTRO IND EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 EB-MX-10 FRENHECK SP-A TJERNLUND RMS-160 MANUF./ MODEL # MARKEL MANUF./ MODEL # SEIHO TT-6 SEIN ARMSTRONG ASTRO ARMSTRONG ASTRO | EB-MX-10FLOORELECTRO IND. EB-MX-15IN FLOORELECTRO IND. EB-MX-10SNOW FLOORELECTRO IND. EB-MX-10SNOW MELTEEXHAUSTTypeGREENHECK SP-ACEILIN CEILINGREENHECK SP-AIN I | EB-MX-10 FLOOR .01 ELECTRO IND. IN 5 EB-MX-15 FLOOR .01 ELECTRO IND. SNOW 4 EB-MX-10 SNOW 4 MANUF./ TYPE CFM GREENHECK CEILING 50 TJERNLUND IN LINE 160 MANUF./ CFM ESP MANUF./ CFM ESP MANUF./ I50 .25 MANUF./ DESCRIPTION MARKEL 150 .25 MANUF./ DESCRIPTION MANUF./ DESCRIPTION MANUF./ QUESCRIPTION MANUF./ SEIHO SEIHO CEILING SEIHO CEILING SEIHO CEILING SEIHO CEILING SEIHO CEILING SEIHO CEILING | EB-MX-10 FLOOR .01 120 ELECTRO IND. IN 5 120 EB-MX-15 FLOOR .01 120 EB-MX-15 FLOOR .01 120 EB-MX-10 IN 5 120 EB-MX-10 SNOW 4 120 EB-MX-10 SNOW 4 120 ELECTRO IND. SNOW 4 120 EB-MX-10 SNOW 4 120 EB-MX-10 SNOW 4 120 ELECTRO IND. SNOW 4 120 GREENHECK CEILING 50 .25 TJERNLUND IN LINE 160 2 TJERNLUND IN LINE 160 2 MANUF./ CFM ESP MO MARKEL 150 .25 FRAC MANUF./ DESCRIPTION FRAM MANUF./ DESCRIPTION SURF SEIHO SOFFIT SURF SEIHO SERTE SURF SEIHO SERTE SURF <td>EB-MX-10 FLOOR .01 120 140 ELECTRO IND. IN 5 120 140 ELECTRO IND. FLOOR .01 120 140 EB-MX-15 FLOOR .01 120 140 EB-MX-15 FLOOR .01 120 140 EB-MX-10 SNOW 4 120 140 EECTRO IND. SNOW 4 120 140 EB-MX-10 SNOW 4 120 140 EECTRO IND. SNOW 4 120 140 ESP-A CEILING 50 .25 20 TJERNLUND IN LINE 160 2 20 TJERNLUND IN LINE 160 2 20 MANUF./ CFM ESP MOTOR MANUF./ CFM ESP MOTOR MANUF./ CFM ESP IN IN MARKEL 150 .25 FRAC 240/1 MANUF./ DESCRIFIT SURF I I SEIH0<td>EB-MX-10 FLOOR .01 120 140 31.0 ELECTRO IND. IN 5 120 140 51.0 EB-MX-15 FLOOR .01 120 140 51.0 ELECTRO IND. IN 5 120 140 51.0 ELECTRO IND. SNOW 4 120 140 31.0 EB-MX-10 MALT .01 140 31.0 GREENHECK CEILING 0.12 20 120 TUERNLUND IN LINE 160 2 20 120 MANUF.// MODEL # CFM ESP MOT ELECT ELECT MANUF./ CFM ESP MOT 5 5 5 MANUF./ CFM</td><td>EB-MX-10 FLOOR .01 120 140 31.0 10 ELECTRO IND. EB-MX-15 FLOOR .01 120 140 51.0 15 ELECTRO IND. EB-MX-10 IN RODEL 5 120 140 51.0 15 ELECTRO IND. EB-MX-10 IN MOUEL 5 120 140 31.0 10 EXHAUST FLOOR .01 120 140 31.0 10 ILECTRO IND. BHANUF./ MODEL TYPE CFM E.S.P. WATTS VolT \$\$ GREENHECK CEILING 50 .25 20 120/1 JARNUF./ MODEL IN<</td> INE 160 2 20 120/1 MANUF./ MODEL CFM ESP AIR L 10 10 MANUF./ MODEL CFM ESP MOTOR ELECTRIC H HP VOLT \$\$ SCR MANUF./ MODEL CFM ESP FRAC 240/1 5 SCR MANUF./ MODEL DESCRIPTION</td> <td>EB=NX-10 FLOOR .01 120 140 31.0 10 SG ELECTRO IND. EB=MX-10 IN 5 120 140 51.0 15 SCF ELECTRO IND. EB=MX-10 NO 5 120 140 51.0 15 SCF ELECTRO IND. EB-MX-10 SNOW 4 120 140 31.0 10 SCF ELECTRO IND. EB-MX-10 SNOW 4 120 140 31.0 10 SCF GREENHECK SNOW 4 120 140 31.0 10 SCF GREENHECK CELLING 50 .25 20 120/1 YE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HARKE UNIT YE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HARKE VOLT # YE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HARKE VOLT/# KW STEPS VOLT MARKEL ISO<</td> <td>EB-MX-10 FLOOR .01 120 140 51.0 10 SCR 240, ELECTRO IND. EB-MX-10 IN 5 120 140 51.0 15 SCR 240, ELECTRO IND. EB-MX-10 N 5 120 140 51.0 15 SCR 240, ELECTRO IND. EB-MX-10 N 5 120 140 31.0 10 SCR 240, ELECTRO IND. EB-MX-10 NUE 4, 120 140 31.0 10 SCR 240, ELECTRO IND. EB-MX-10 NUE 4, 120 140 31.0 10 SCR 240, GREENHECK CELUING 50 .25 20 120/1 YES DIRE JERNUMD IN LINE 160 2 20 120/1 YES DIRE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HEATING NUE A A MANUF./ MODEL # CFM ESP MOTOR<</td> <td>EB-MX-10 PLOOR .01 120 140 31.0 10 SCR 240/1 ELECTRO IND ELECTRO IND BMAX-15 FLOOR .01 120 140 51.0 15 SCR 240/1 ELECTRO IND BMAX-15 FLOOR .01 120 140 51.0 15 SCR 240/1 50 ELECTRO IND BMAX-10 MADUF / MELT SNOW 4 120 140 31.0 10 SCR 240/1 50 ELECTRO IND BMAX-10 MALT TYPE CFM E.S.P. WATTS VOLT # B.D.D. DRIVE 0/PER. GREEN-ECK CELLING 50 .25 20 120/1 YES DIRECT 15 TSRNUMP / MODEL # 160 2 20 120/1 YES DIRECT 15 TSRNUMP / MODEL # CFM ESP MOTOR ELECTRIC HEATING MODEL # ENT LV MANUF / MODEL # 150 .25 FRAC 240/1 5 SCR</td> <td>EB-MAX-10 FLOOR .01 120 140 51.0 150 SCR 240/1 ELECTRO IND, EB-MAX-15 FLOOR .01 120 140 51.0 15 SCR 240/1 </td> | EB-MX-10 FLOOR .01 120 140 ELECTRO IND. IN 5 120 140 ELECTRO IND. FLOOR .01 120 140 EB-MX-15 FLOOR .01 120 140 EB-MX-15 FLOOR .01 120 140 EB-MX-10 SNOW 4 120 140 EECTRO IND. SNOW 4 120 140 EB-MX-10 SNOW 4 120 140 EECTRO IND. SNOW 4 120 140 ESP-A CEILING 50 .25 20 TJERNLUND IN LINE 160 2 20 TJERNLUND IN LINE 160 2 20 MANUF./ CFM ESP MOTOR MANUF./ CFM ESP MOTOR MANUF./ CFM ESP IN IN MARKEL 150 .25 FRAC 240/1 MANUF./ DESCRIFIT SURF I I SEIH0 <td>EB-MX-10 FLOOR .01 120 140 31.0 ELECTRO IND. IN 5 120 140 51.0 EB-MX-15 FLOOR .01 120 140 51.0 ELECTRO IND. IN 5 120 140 51.0 ELECTRO IND. SNOW 4 120 140 31.0 EB-MX-10 MALT .01 140 31.0 GREENHECK CEILING 0.12 20 120 TUERNLUND IN LINE 160 2 20 120 MANUF.// MODEL # CFM ESP MOT ELECT ELECT MANUF./ CFM ESP MOT 5 5 5 MANUF./ CFM</td> <td>EB-MX-10 FLOOR .01 120 140 31.0 10 ELECTRO IND. EB-MX-15 FLOOR .01 120 140 51.0 15 ELECTRO IND. EB-MX-10 IN RODEL 5 120 140 51.0 15 ELECTRO IND. EB-MX-10 IN MOUEL 5 120 140 31.0 10 EXHAUST FLOOR .01 120 140 31.0 10 ILECTRO IND. BHANUF./ MODEL TYPE CFM E.S.P. WATTS VolT \$\$ GREENHECK CEILING 50 .25 20 120/1 JARNUF./ MODEL IN<</td> INE 160 2 20 120/1 MANUF./ MODEL CFM ESP AIR L 10 10 MANUF./ MODEL CFM ESP MOTOR ELECTRIC H HP VOLT \$\$ SCR MANUF./ MODEL CFM ESP FRAC 240/1 5 SCR MANUF./ MODEL DESCRIPTION | EB-MX-10 FLOOR .01 120 140 31.0 ELECTRO IND. IN 5 120 140 51.0 EB-MX-15 FLOOR .01 120 140 51.0 ELECTRO IND. IN 5 120 140 51.0 ELECTRO IND. SNOW 4 120 140 31.0 EB-MX-10 MALT .01 140 31.0 GREENHECK CEILING 0.12 20 120 TUERNLUND IN LINE 160 2 20 120 MANUF.// MODEL # CFM ESP MOT ELECT ELECT MANUF./ CFM ESP MOT 5 5 5 MANUF./ CFM | EB-MX-10 FLOOR .01 120 140 31.0 10 ELECTRO IND. EB-MX-15 FLOOR .01 120 140 51.0 15 ELECTRO IND. EB-MX-10 IN RODEL 5 120 140 51.0 15 ELECTRO IND. EB-MX-10 IN MOUEL 5 120 140 31.0 10 EXHAUST FLOOR .01 120 140 31.0 10 ILECTRO IND. BHANUF./ MODEL TYPE CFM E.S.P. WATTS VolT \$\$ GREENHECK CEILING 50 .25 20 120/1 JARNUF./ MODEL IN< | EB=NX-10 FLOOR .01 120 140 31.0 10 SG ELECTRO IND. EB=MX-10 IN 5 120 140 51.0 15 SCF ELECTRO IND. EB=MX-10 NO 5 120 140 51.0 15 SCF ELECTRO IND. EB-MX-10 SNOW 4 120 140 31.0 10 SCF ELECTRO IND. EB-MX-10 SNOW 4 120 140 31.0 10 SCF GREENHECK SNOW 4 120 140 31.0 10 SCF GREENHECK CELLING 50 .25 20 120/1 YE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HARKE UNIT YE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HARKE VOLT # YE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HARKE VOLT/# KW STEPS VOLT MARKEL ISO< | EB-MX-10 FLOOR .01 120 140 51.0 10 SCR 240, ELECTRO IND. EB-MX-10 IN 5 120 140 51.0 15 SCR 240, ELECTRO IND. EB-MX-10 N 5 120 140 51.0 15 SCR 240, ELECTRO IND. EB-MX-10 N 5 120 140 31.0 10 SCR 240, ELECTRO IND. EB-MX-10 NUE 4, 120 140 31.0 10 SCR 240, ELECTRO IND. EB-MX-10 NUE 4, 120 140 31.0 10 SCR 240, GREENHECK CELUING 50 .25 20 120/1 YES DIRE JERNUMD IN LINE 160 2 20 120/1 YES DIRE MANUF./ MODEL # CFM ESP MOTOR ELECTRIC HEATING NUE A A MANUF./ MODEL # CFM ESP MOTOR< | EB-MX-10 PLOOR .01 120 140 31.0 10 SCR 240/1 ELECTRO IND ELECTRO IND BMAX-15 FLOOR .01 120 140 51.0 15 SCR 240/1 ELECTRO IND BMAX-15 FLOOR .01 120 140 51.0 15 SCR 240/1 50 ELECTRO IND BMAX-10 MADUF / MELT SNOW 4 120 140 31.0 10 SCR 240/1 50 ELECTRO IND BMAX-10 MALT TYPE CFM E.S.P. WATTS VOLT # B.D.D. DRIVE 0/PER. GREEN-ECK CELLING 50 .25 20 120/1 YES DIRECT 15 TSRNUMP / MODEL # 160 2 20 120/1 YES DIRECT 15 TSRNUMP / MODEL # CFM ESP MOTOR ELECTRIC HEATING MODEL # ENT LV MANUF / MODEL # 150 .25 FRAC 240/1 5 SCR | EB-MAX-10 FLOOR .01 120 140 51.0 150 SCR 240/1 ELECTRO IND, EB-MAX-15 FLOOR .01 120 140 51.0 15 SCR 240/1 | |

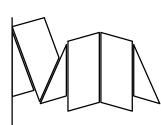
| <u>-</u> | | | | | | | | | | | | | | |
|--|---|---|---|---|--|---|---|--|------|--|----------------------------------|-------------------|--|--|
| MARK | MANUF./ MODEL # | TYPE | GPM (PSIG) | EWT (F) | LWT (F) | CAP MBH | ки | NO. STAC | GES | VOLT Ø | | | REMARKS | |
| B-1 | ELECTRO IND. EB-MX-10 | IN FLOOR | 4 .01 | 120 | 140 | 31.0 | 10 |) SC | R | 240/1 | | | _ | |
| B-2 | ELECTRO IND. EB-MX-15 | IN FLOOR | 5 .01 | 120 | 140 | 51.0 | 15 | s sc | R | 240/1 | | | _ | |
| B-3 | ELECTRO IND. EB-MX-15 | IN FLOOR | 5 .01 | 120 | 140 | 51.0 | 15 | s sc | R | 240/1 | | _ | | |
| B-4 | ELECTRO IND. EB-MX-10 | SNOW MELT | 4 .01 | 120 | 140 | 31.0 | 10 |) SC | R | 240/1 | 50% GLYCOL/WATER SOLUTION | | | |
| | EXHA | ΙΕΤ | ЕЛ | | 201 | | | = | | | | | | |
| <u>\-/</u> | | | | | | | | | | | | | | |
| MARK | MANUF./ MODEL # | TYPE | CFM | E.S.F | P. WATI | s ۱ | /OLT Ø | ø B.D | .D. | DRIVE | OPER. WT. REMARKS | | | |
| EF—1 | GREENHECK SP-A | CEILING | G 50 | .25 | 20 | 1 | 120/1 | YE | ËS | DIRECT | 15 | | INTERLOCK WITH MAU-1 | |
| EF-RA | TJERNLUND RMS-160 | IN LINE | E 160 | 2 | 20 | 1 | 120/1 | YE | ES | DIRECT | 15 | SEE | NOTE ON MO.1 FOR TESTING | |
| | | | | | | | | | | | | | | |
| | ELECT | | | KF | | Δ | | | T | 90 | HED | | F | |
| <u></u> | | | | MO. | | | | | | ENT | | | | |
| MARK | MANUF./ MODEL # | CFM | ESP | HP | VOLT/Ø | | 1 | PS VOL | | | | R | EMARKS | |
| 1 | MARKEL MFH-3 | 150 | .25 | FRAC | 240/1 | 5 | sc | R 240 | 0/1 | -20 | 70 | | ABLE SPEED RLOCK WITH TOILET EF-1'S | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | GRILL | E, R | EGI | STI | | & C | | -US | EF | R S | | | ILE | |
| MARK | GRILL MANUF./ MODEL # | | REGI | STI FRAM | | | | | EF | | | EDU MAX. NC | REMARKS | |
| MARK SL-1 | MANUF./ MODEL # SEIHO | DESCI | | 1 | E STYL | E F | | MA | | AL DA | | MAX. | | |
| | MANUF./ MODEL # SEIHO TT-6 SEIHO | DESCI SC | RIPTION | FRAM | E STYL | E F | INISH | MA ⁻ E <i>A</i> | TERI | | MPER | MAX. NC | | |
| SL-1 | MANUF./ MODEL # SEIHO TT-6 | DESCI SC CE DIFF | RIPTION DFFIT | FRAM SURF | E STYL | E F PAI PAI | INISH | МА [.] Е А | | AL DA | MPER | MAX. NC | | |
| SL-1 CD-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO | DESCI SC CE DIFF | RIPTION DFFIT ILING TUSER | FRAM SURF SURF | E STYL | E F PAI PAI | INISH | МА [.] Е А | | AL DA | MPER 3DD | MAX. NC – | | |
| SL-1 CD-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 | DESCI SC CE DIFF W/ | RIPTION DFFIT ILING TUSER ATER CAP | FRAM SURF SURF | E STYL | E F PAI PAI | INISH | МА [.] Е А | | AL DA | MPER 3DD | MAX. NC – | | |
| SL-1 CD-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 | DESCI SC CE DIFF W/ | RIPTION DFFIT ILING TUSER ATER CAP | FRAM SURF SURF | E STYL | E F PAI PAI | INISH | МА [.] Е А | | AL DA | MPER 3DD | MAX. NC – | | |
| SL-1 CD-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 | DESCI SC CE DIFF W/ | RIPTION DFFIT ILING TUSER ATER CAP | FRAM SURF SURF | E STYL | E F PAI PAI | INTABLE INTABLE | МА [.] Е А | | AL DA | MPER 3DD | MAX. NC – | | |
| SL-1 CD-1 WC-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 | DESCI SC DIFF W/ C | RIPTION DFFIT ILING TUSER ATER CAP HED CE GF | FRAM SURF SURF | E STYL | E F PAI PAI | INTABLE INTABLE | МА [:] Е / Е / | | AL DA | MPER 3DD | MAX. NC – | REMARKS - - - | |
| SL-1 CD-1 WC-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 MANUF./ MODEL # | DESCI SC DIFF W/ C SERVI | RIPTION DFFIT ILING TUSER ATER ATER AP HED CE GF 1 | FRAM SURF SURF SURF | E STYL | E F PAI PAI PAI | INTABLE INTABLE INTABLE | MA E A E A VOLT/¢ | | AL DA | MPER 3DD | MAX. NC – | REMARKS - - - | |
| SL-1 CD-1 WC-1 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 MANUF./ MODEL # ARMSTRONG ASTRO | DESCI SC DIFF W/ C SERVI B | RIPTION DFFIT ILING USER ATER CAP HED CE GF 1 2 | FRAM SURF SURF SURF | E STYL - - - - - - - - - | E F PAI PAI PAI PAI | INTABLE INTABLE INTABLE INTABLE /ATTS 211 | MA E / E / E / VOLT/¢ 120/1 | | AL DA E E PER. T. 10 | MPER 3DD | MAX. NC – | REMARKS - - - | |
| SL-1 CD-1 WC-1 MARK 1 2 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 ASINO ARMSTRONG ASTRO ARMSTRONG ASTRO | DESCI SC DIFF W/ C SERVI B-1 B-2 | RIPTION DFFIT ILING TUSER ATER CAP | FRAM | E STYL | E F PAI PAI PAI PAI 760 | INISH INTABLE INTABLE INTABLE /ATTS 211 211 | MA ⁻¹ E A E A VOLT/¢ 120/1 120/1 | | AL DA E E PER. 10 10 | MPER 3DD 3DD 3DD 3DD | MAX. NC | REMARKS - - - | |
| SL-1 CD-1 WC-1 MARK 1 2 3 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 PUMP MANUF./ MODEL # ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO | DESCI SC DIFF W/ C SERVI B-2 B-2 | RIPTION DFFIT ILING USER ATER CAP | FRAM | E STYL | E F PAI PAI PAI PAI 760 760 | INISH INTABLE INTABLE INTABLE INTABLE 211 211 211 | MA E / E / E / VOLT/¢ 120/1 120/1 120/1 | | AL DA E | MPER 3DD 3DD 3DD 3DD | MAX. NC | REMARKS - - REMARKS - | |
| SL-1 CD-1 WC-1 MARK 1 2 3 4 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 PUPN ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO | DESCI SC DIFF W/ C SERVI B-1 B-2 B-2 B-2 | RIPTION DFFIT ILING TUSER ATER CAP | FRAM | E STYL | E PAI PAI PAI PAI PAI 760 760 760 | INISH INTABLE INTABLE INTABLE /ATTS 211 211 211 211 | MA ¹ E / E / E / E / E / E / E / E / E / E / | | AL DA E E E E E E E E E E E E E E E E E E E | MPER 3DD 3DD 3DD 3DD | MAX. NC | REMARKS - - REMARKS - | |
| SL-1 CD-1 WC-1 MARK 1 2 3 4 5 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 PUNP ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO | DESCI SC CE DIFF W/ SERVI B-2 B-2 B-2 B-2 MANIFO MANIFO | RIPTION | FRAM | E STYL | E PAI PAI PAI PAI PAI PAI 760 760 760 | INISH INTABLE INTABLE INTABLE /ATTS 211 211 211 211 150 | MA ¹ E / E / E / VOLT/¢ 120/1 120/1 120/1 120/1 120/1 | | AL DA | MPER 3DD 3DD 3DD 3DD | MAX. NC | REMARKS - - REMARKS - | |
| SL-1 CD-1 WC-1 MARK 1 2 3 4 5 6 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 PUPNP ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO | DESCI SC CE DIFF W/ SERVI B1 B2 B2 MANIF(0) MANIF(0) MANIF(0) | RIPTION | FRAM SURF SURF SURF SURF DULI PM H 4 5 4 5 4 5 4 3 .0 | E STYL | E PAI PAI PAI PAI PAI PAI PAI PAI PAI PAI | INISH INTABLE INTABLE INTABLE INTABLE 211 211 211 211 150 150 | MA ¹ E A E A E A VOLT/¢ 120/1 120/1 120/1 120/1 120/1 120/1 | | AL DA | MPER 3DD 3DD 3DD 3DD | MAX. NC | REMARKS - - REMARKS - | |
| SL-1 CD-1 WC-1 MARK 1 2 3 4 5 6 7 | MANUF./ MODEL # SEIHO TT-6 SEIHO TT-6 SEIHO TT-6 PUNDE ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO ARMSTRONG ASTRO | DESCI SC DIFF W/ C SERVI B-2 B-2 B-2 B-2 B-2 B-2 B-2 B-2 B-2 B-2 | RIPTION | FRAM SURF SURF SURF OULI M H 4 5 4 5 4 5 4 3 .0 4 | E STYL - - - | E PAI PAI PAI PAI PAI PAI 760 760 760 760 760 | INISH INTABLE INTABLE INTABLE /ATTS 211 211 211 211 211 150 150 150 | MA ¹ E / E / E / C VOLT/¢ 120/1 120/1 120/1 120/1 120/1 120/1 120/1 | | AL DA | MPER 3DD 3DD 3DD 3DD | MAX. NC | REMARKS - - REMARKS - | |

<u>RESIDENTIAL UNIT</u> HEATING AND COOLING LOAD CALCULATIONS

HEATING AND COOLING LOADS CALCULATED UTILIZING "CARRIER" HOURLY ANALYSIS PROGRAM (VERSION 4.70) BASED ON ASHRAE PROCEDURES. WHICH IS EQUIVALENT TO ACCA MANUAL J HEATING AND COOLING EQUIPMENT HAS BEEN SIZED IN ACCORDANCE WITH ACCA MANUAL S

| UNIT NO. | CALCULA | TED LOADS | EQUIPMENT | CAPACITY PROVIDED |
|-----------------|------------------|-----------------------------|------------------|-----------------------------|
| OR ZONE | HEATING MBTUH | SENSIBLE COOLING (MBTUH) | HEATING MBTUH | SENSIBLE COOLING (MBTUH) |
| TYPICAL UNIT | 29.2 | _ | 31.0 | _ |
| 124 | 48.3 | - | 51.0 | _ |
| 133 | 46.3 | _ | 51.0 | _ |





rchitect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 Т 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

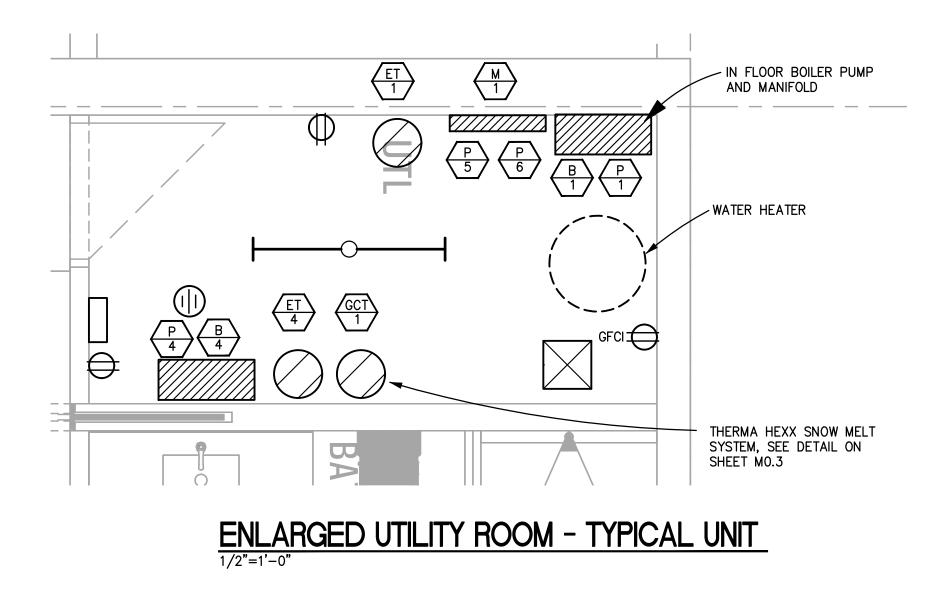
LANDSCAPE angvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

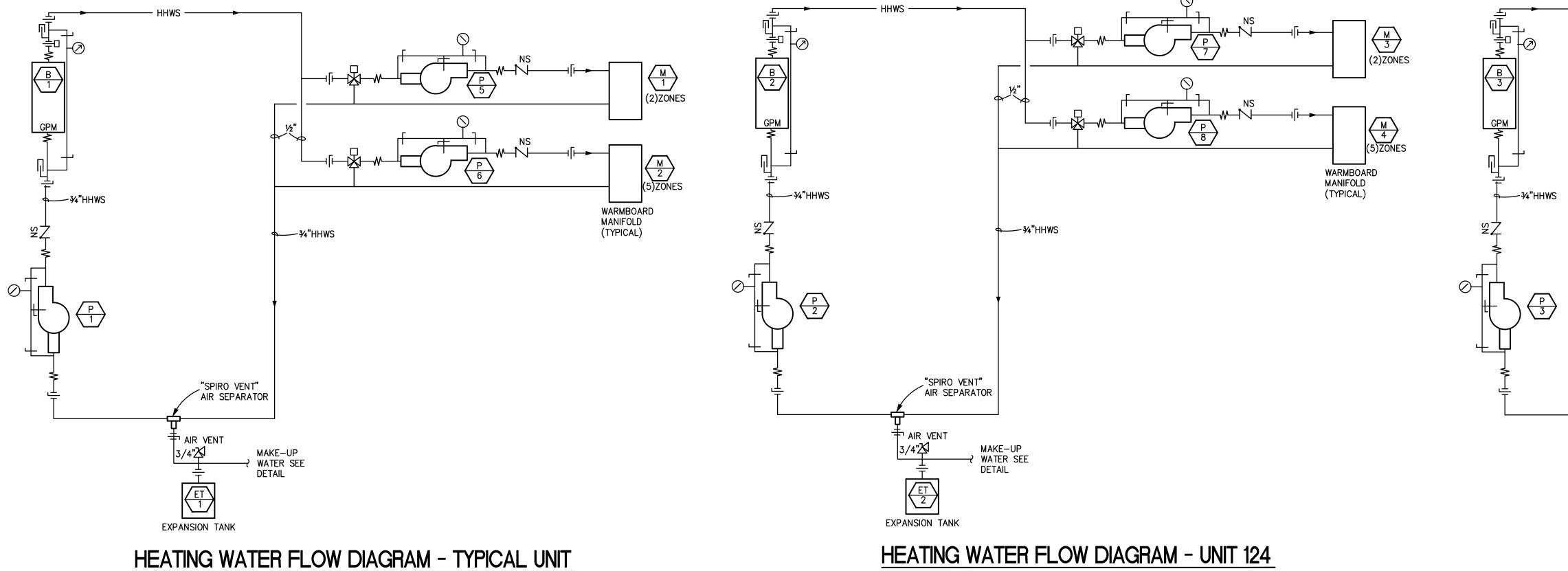


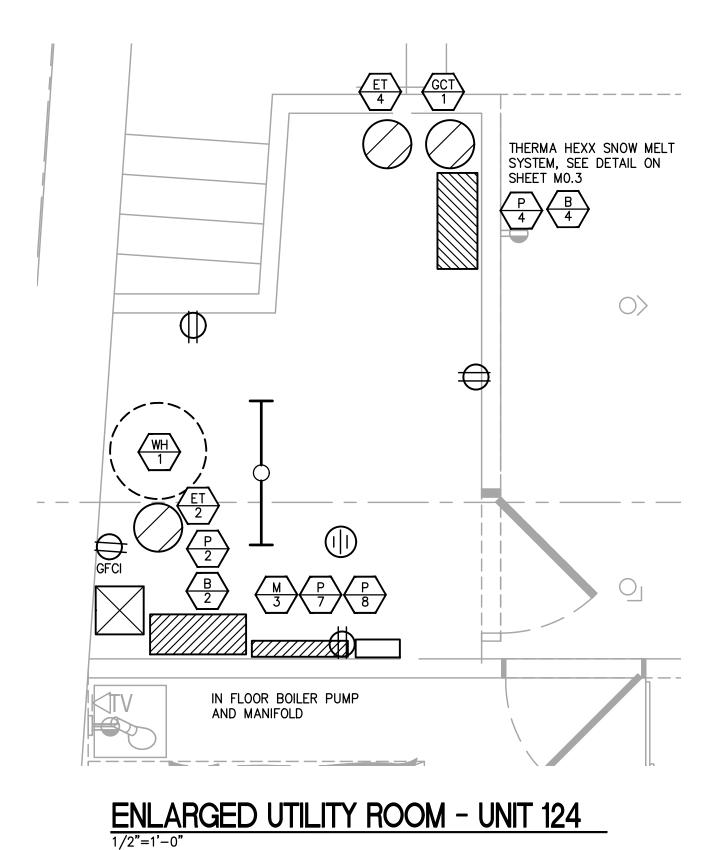


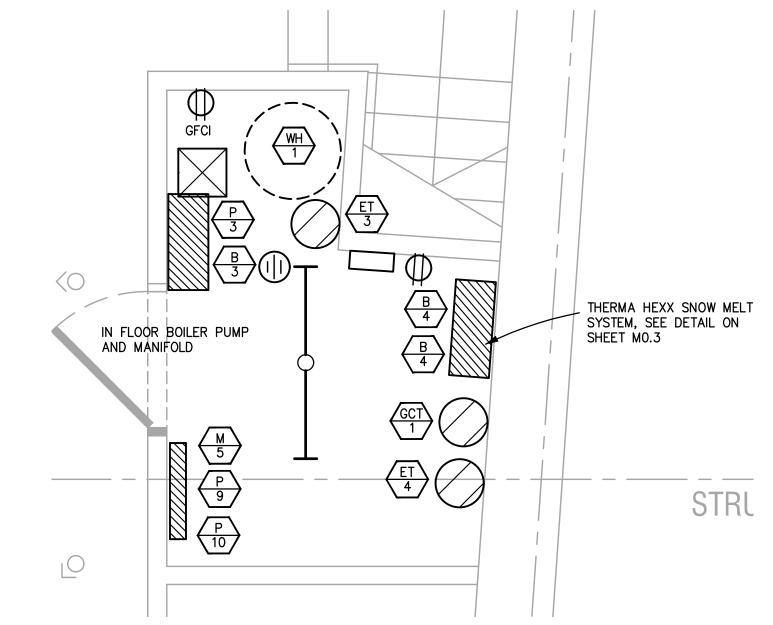
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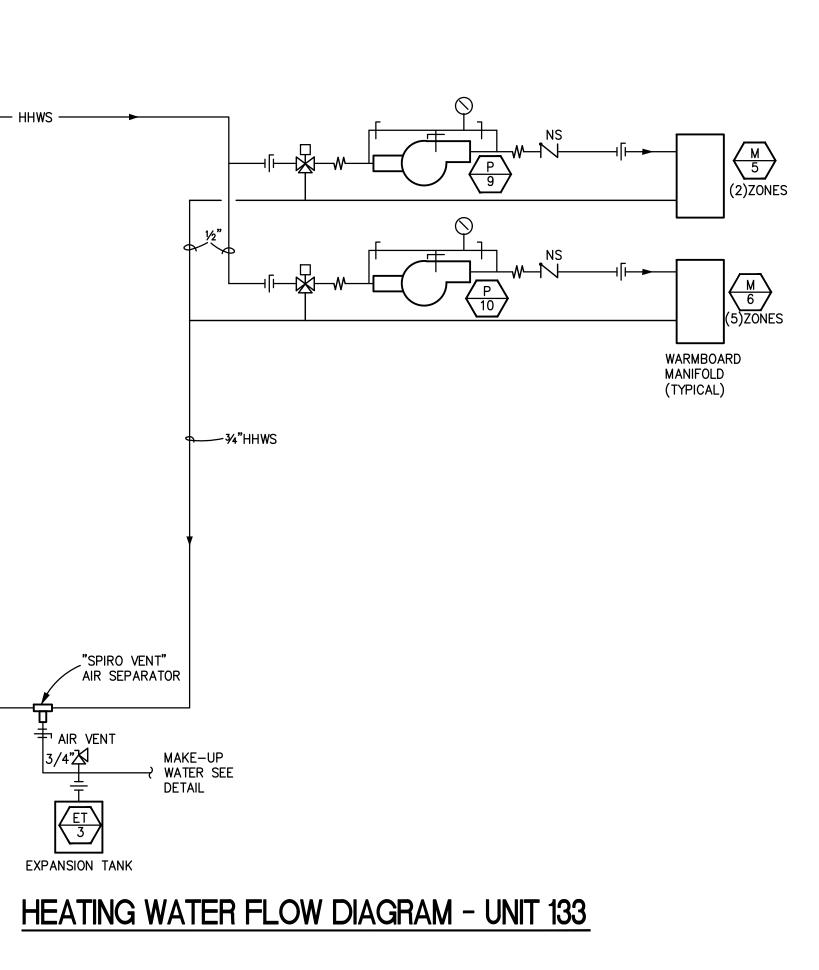
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ENLARGED UTILITY ROOM - UNIT 133



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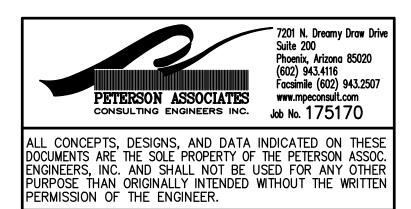
MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

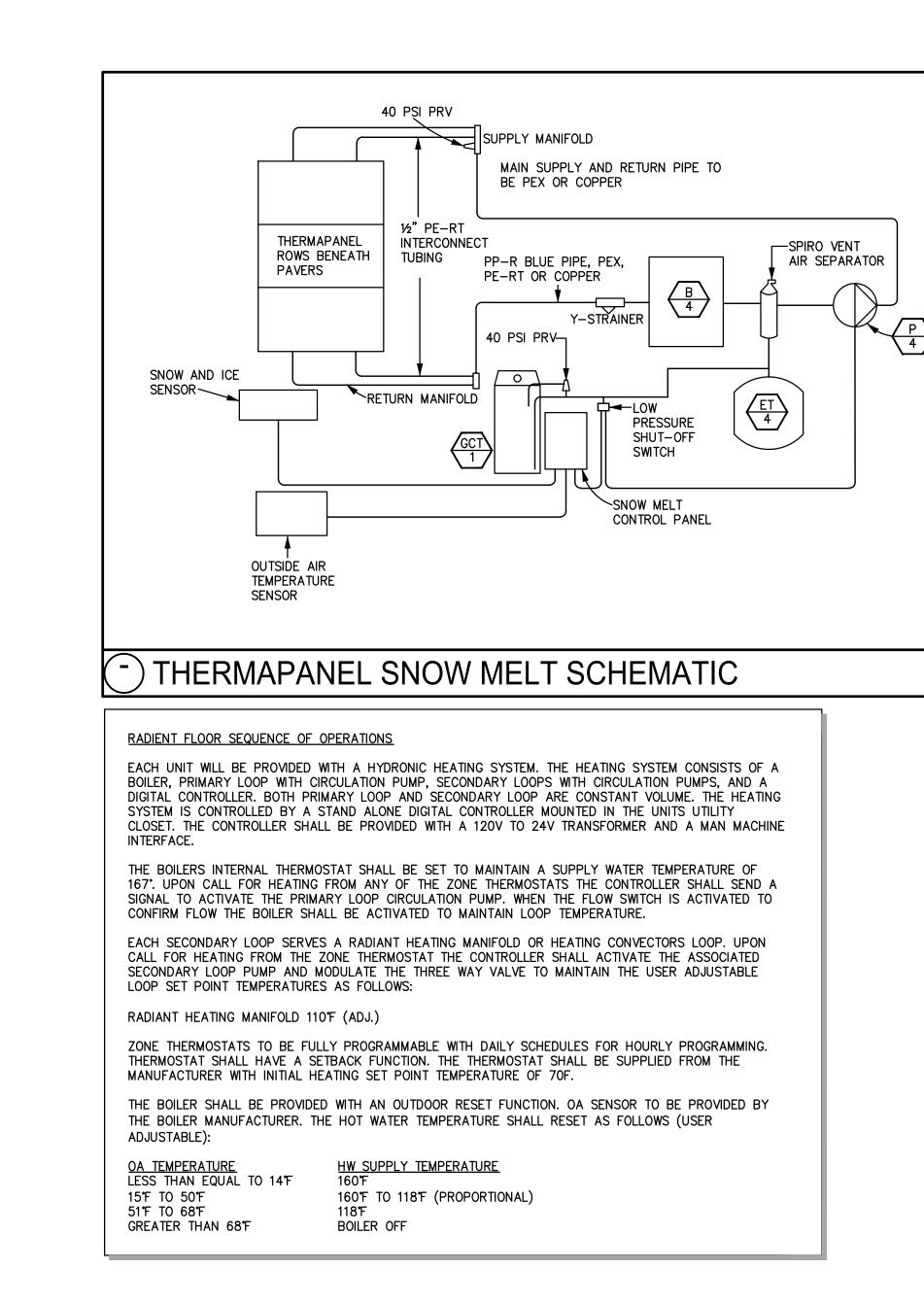
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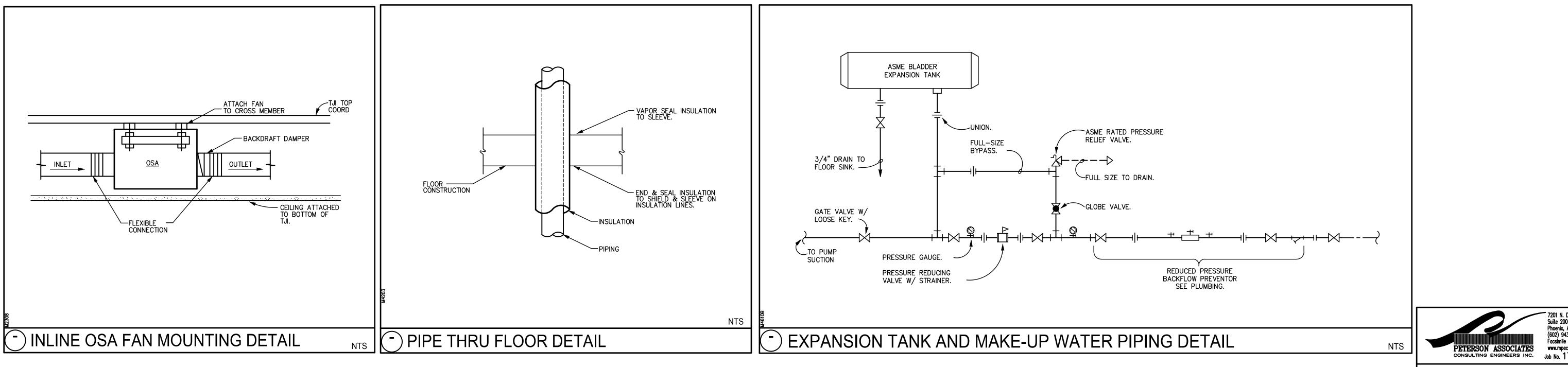




1/4" = 1'-0" scale







| | | PIPIN | G SI | (MBOLS | MECHANICAL LEG | | | | |
|---|--|--------|-------|---|----------------------|----------|-------|--------------------------------|--|
| | SINGLE | DOUBLE | ABBR | DESCRIPTION | SINGLE | DOUBLE | ABBR. | DESCRIPTION | |
| | \forall \bowtie | • | GV | GATE VALVE | <u></u> | | 0 | RECTANGULAR DUCT (NEW) | |
| | | • | GLV | GLOBE VALVE | } ⊳ ∤ | | o | TRANSITION | |
| | | • | B∨ | BALL VALVE | \sim | 2 | 0 | ROUND DUCT (NEW) (OR OVAL | |
| | 2 条 | • | cv | CONTROL VALVE (2 & 3 MAY) (ELECTRIC OR ELECTRONIC) | <u> </u> | | 0 | RECTANGULAR DUCT (EXISTING | |
| | | • | СКУ | CHECK VALVE | 2-2 | [2]3 | o | ROUND DUCT (EXISTING) | |
| | | • | BFV | BUTTERFLY VALVE | 77 | | 0 | 45 DEG. TAP: USE AT BRANCH | |
| | | • | BLV | BALANCE & FLOW CONTROL VALVE W/TAPS | ┤ ┝ ╵ | | 0 | DUCT SPLIT W/DAMPER: USE A | |
| | <u>≻ </u> | • | NV | NEEDLE VALVE (GAUGE COCK) | - 7 - | | | PROPORTION DUCT AREAS BY | |
| | <u>,</u> ∦ M∨ , | • | MV | MANUAL AIR VENT | | | 0 | CURVED ELBOW-MIN. RADIUS R | |
| | | • | AV | AUTOMATIC AIR VENT (PIPE DRAIN TO F.S.) | | | 0 | 90 DEG. ELBOW WITH SINGLE RA | |
| | | • | | INSTRUMENT THERMOMETER WELL | ╞ ╴ ╢╟──┾ | | 0 | FLEXIBLE DUCT CONNECTION | |
| | | • | pp | PETERSON PLUG W/PG ATTACHMENT | ┝─┼─┾ | | VD | VOLUME DAMPER W/LOCKING | |
| | t t | • | PG | PRESSURE GAUGE & COCK (STEAM SIPHON) | | | o | SPIN-IN FLEX DUCT TAKE-OFF | |
| | | • | TH | THERMOMETER | ₹) | | SŧQ | SPLITTER DAMPER WITH | |
| | | • | ST | STRAINER W/ FULL SIZE BLOW DOWN VALVE | • | | SA | LOCKING QUADRANT SUPPLY AIR | |
| | | • | FC | FLEXIBLE CONNECTION | 0 | | EXH | EXHAUST AIR | |
| | | • | FLG | FLANGE | 0 | | RA | RETURN AIR | |
| | | • | • | REDUCERS: A. ECCENTRIC B. CONCENTRIC | o | M | REL | RELIEF AIR | |
| | | • | H,S,A | HANGER, SUPPORT OR ANCHOR (AS NOTED) | o | 24 | OSA | | |
| J | | • | CHWS | CHILLED WATER SUPPLY | o | | • | NEW CONNECTION TO EXISTING | |
| | | • | CHWR | CHILLED WATER RETURN | 0 | 0 | TA | TRANSFER AIR | |
| | | • | | | 0 | 0 | ER | EXHAUST REGISTER | |
| | | • | CMS | CONDENSER WATER SUPPLY | 0 | 0 | ED | | |
| | | • | CMR | CONDENSER WATER RETURN | 0 | 0 | | | |
| | $\sim \mathbf{p} \rightarrow$ | • | Þ | DRAIN | 0 | 0 | BFF | BELOW FINISHED FLOOR | |
| | → M | • | N | INDUSTRIAL MAKE-UP WATER | 0 | 0 | NTS | NOT TO SCALE | |
| | <u> </u> | • | RV | REFRIGERANT VENT | 0 | ° | EH | EXHAUST HOOD | |
| | <u>, </u> | ٠ | FMS | FLOW MEASUREMENT STATION | 0 | | т | THERMOSTAT | |
| | 0000 | • | PGVM | PRESSURE GAUGE VALVE MANIFOLD WITH GAUGE | > | D | F/S | COMBINATION FIRE/SMOKE DA | |
| | Ţ | • | HE | HOSE THREAD END | | <i>•</i> | SD | SMOKE DUCT DETECTOR | |
| | | • | UN | UNION | F | F | 0 | FIRE STAT SET AT 165° | |
| | $\mathbf{\Theta}$ | • | | POINT OF NEW CONNECTION TO EXISTING | Ø | 0 | 0 | OUTSIDE AIR STAT | |
| | - | | | | 6 | 6 | 0 | SENSOR | |

| EGEND | MECHANICAL NOTES | |
|---|--|---|
| | 1. FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC., NECESSARY OR REASONABLE, REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS. | architect STUDIO MA 130 N Central Ave |
| R OVAL) ØRD ØOVAL XISTING)) BRANCH DUCTS ONLY | 2. DUCTS SHALL BE FABRICATED OF PRIME GALVANIZED LOCK FORMING QUALITY STEEL SHEETS, OR A GAUGE IN ACCORDANCE WITH THE FOLLOWING TABLE: DUCTS WITH LONGEST SIDE NOT MORE THAN 12" IN WIDTH26 GA DUCTS WITH LONGEST SIDE 13" TO 30" IN WIDTH24 GA DUCTS WITH LONGEST SIDE 31" TO 40" IN WIDTH | Phoenix, Arizona & T 602 251 3800 sma project no. 16-101 |
| : USE AT ELBONG AND TEES: EAS BY CFM'S | 3. PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE. | sma project name POWDERCAT |
| ADIUS R: 1.5 WIDTH | 4. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS. | |
| NGLE RADIUS TURNING VANES | 5. PREFORM A TOTAL TEST AND BALANCE OF SYSTEM. TESTING COMPANY MUST BE CERTIFIED BY AABC OR NEBB. SUBMIT A CERTIFIED REPORT TO ARCH. 10 DAYS PRIOR TO C OF O WITH A COPY TO CITY INSPECTOR. | COPYRIGHT 2017 This document is service and shall r |
| ocking quadrant | 6. ALL DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE AND SMACNA OR IMC (2015) STANDARDS". SEAL ALL DUCTWORK, LONGITUDINAL AND LATITUDINAL JOINTS WITH DP-1010 SEALANT (PER 2015 IECC). | property of the Arc retain all common and other reserved |
| KE-OFF W/DAMPER | EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECTURAL – REFLECTED CEILING PLAN. | the copyright there OWNER |
| | 8. CONTRACTOR TO VERIFY LOCATION OF ALL AIR EQUIPMENT SO THAT NO INTERFERENCE ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH STRUCTURAL ELEMENTS. | oviner orr powdercat th c 11180 sunrise val reston, va 20191 |
| | 9. MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCE. | t (703) 289-2125 |
| XISTING | 10. CONTRACTOR AND ARCHITECT TO VERIFY T-STAT LOCATIONS. 11. THERMOSTATS MUST BE LOCATED 48" ABOVE FINISHED FLOOR. (TO CENTERLINE OF THERMOSTAT) T-STATS SHALL BE 7 DAY PROGRAMMABLE WITH SET-BACK CAPABILITIES (PER 2015 IECC). | CIVIL talisman civil cons 5217 south states murray, uT 84107 t (801) 743-1308 |
| R R | 12. MECHANICAL CONTRACTOR SHALL INSULATE ALL NEW SUPPLY AND RETURN AIR DUCTWORK LOCATED WITHIN AN ATTIC SPACE WITH MIN. R-6 INSULATION, ALL NEW SUPPLY AIR DUCTWORK LOCATED WITHIN A PLENUM SPACE WITH MIN. R-6 INSULATION AND/OR ANY DUCTWORK EXPOSED TO THE EXTERIOR WITH MIN. R-8 INSULATION (PER 2015 IECC). INSULATION NOT REQUIRED FOR FOR SUPPLY/RETURN AIR DUCTWORK LOCATED WITHIN A PLENUM SPACE WHERE THE ENVELOPE INSULATION IS MIN. R-8 OR ANY EXHAUST DUCT. | STRUCTURAL rudow+berry, inc 4032 n miller rd. a scottsdale, az 852 t (480) 946-8171 |
| | 13. HVAC CONTRACTOR SHALL REPLACE ALL FILTERS UPON COMPLETION OF CONSTRUCTION. THIS INCLUDES FILTERS AT ALL NEW UNITS AND FILTERS AT ALL EXISTING UNITS AFFECTED BY CONSTRUCTION. | MECH/PLBG/ELEC |
| DKE DAMPER | ALL WORK IS ALSO TO CONFORM TO ICC-700 GREEN BUILDING CODE; THIS IS A MANDATE | engineers, inc. 7201 n dreamy dr |
| R | PER SUMMIT POWDER MOUNTAIN. ANY ADDITIONAL REQUIREMENTS TO MEET THIS STANDARD ARE TO BE INCLUDED AND ENUMERATED. | phoenix, az 85020 t (602) 388-1732 |
| | | LANDSCAPE |
| | MANIFOLD WARMBOARD: 114" BRASS BODY WITH FACTORY MOUNTED MAIN ISOLATION VALVES WITH INTEGRAL TEMPERATURE GAUGES. BRASS END CAPS WITH AUTOMATIC AIR VENT AND DRAIN. BRASS ZONE BALANCING VALVES, BRASS BALL ZONE ISOLATION VALVES, ZONE ACTUATES, METAL OFFSET WALL MOUNTING BRACKETS. SIGHT GLASS AND FLOW METERS. | langvardt design g 328 W 200 S salt lake city, ut 84 t (801) 583-1295 |
| | PUMPS: 3-SPEED INLINE CIRCULATOR, CAST IRON BODY, PA66 IMPELLER, CERAMIC SHAFT, CERAMIC BEARINGS, EPDM GASKET. ETL LISTED FOR UNITED STATES, STD. 778 CERTIFIED TO CSA STD. C22.2 NO. 108-01. | |
| | RADON: AFTER BUILDING FOUNDATION AND ENVELOPE CONSTRUCTION IS COMPLETE, CONTRACTOR TO ENGAGE AN AARST-NRPP CERTIFIED TECHNICIAN TO TEST RADON LEVELS IN EACH UNIT. IF THE RADON CONCENTRATION EXCEED 4.0 PCI/L THE RADON MITIGATION FAN (EF-RA) SHALL BE INSTALLED. | |
| | | |

7201 N. Dreamy Draw Drive Suite 200 Phoenix, Arizona 85020 (602) 943.4116 Facsimile (602) 943.2507 www.mpeconsult.com Job No. 175170

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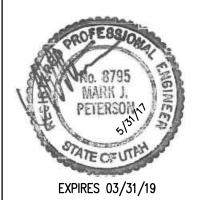
/NER powdercat th development, llc 180 sunrise valley drive, ste 30 ston, va 20191 703) 289-2125

sman civil consultants 17 south state st, ste 200 rray, uT 84107 801) 743-1308

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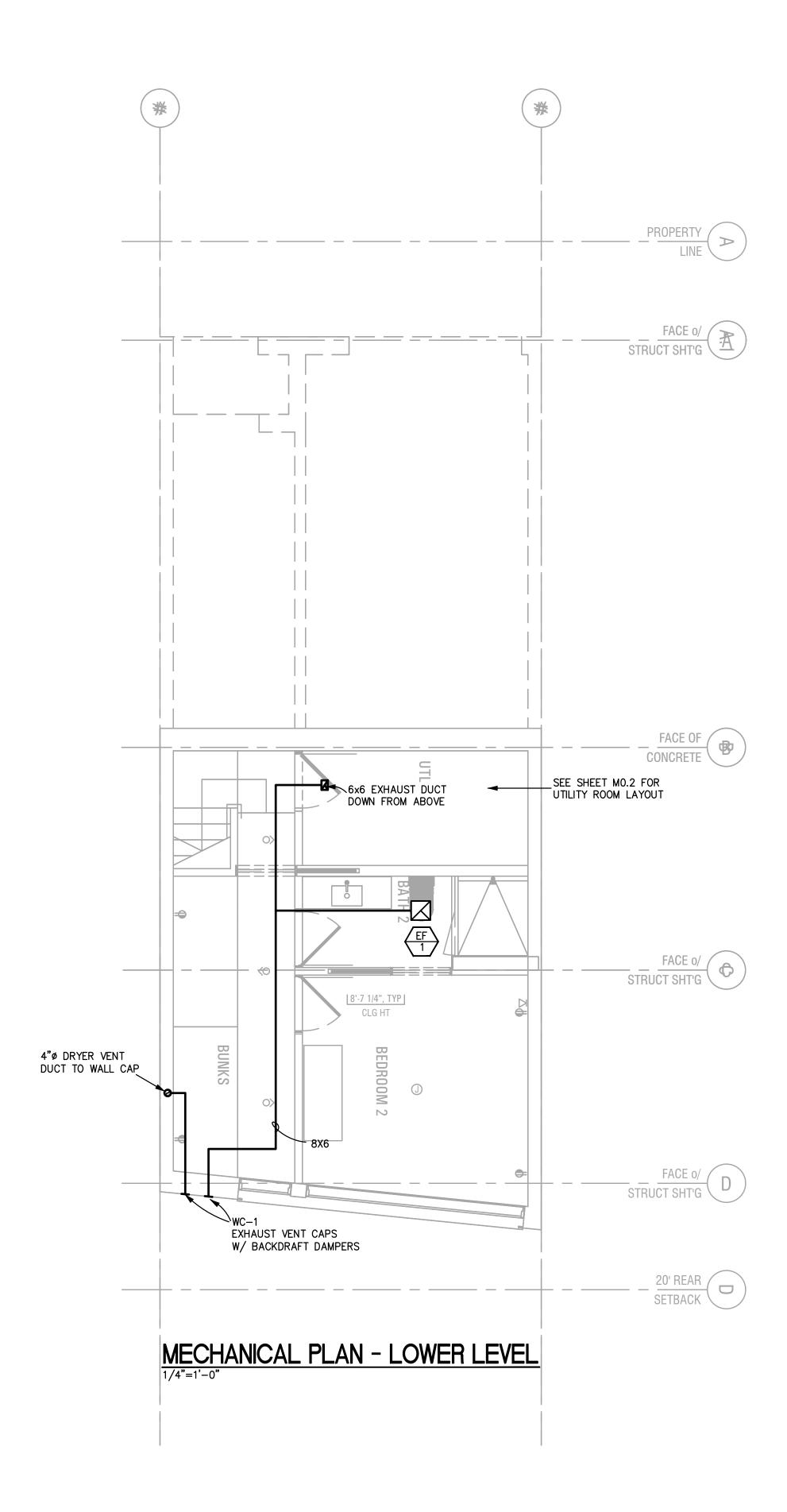
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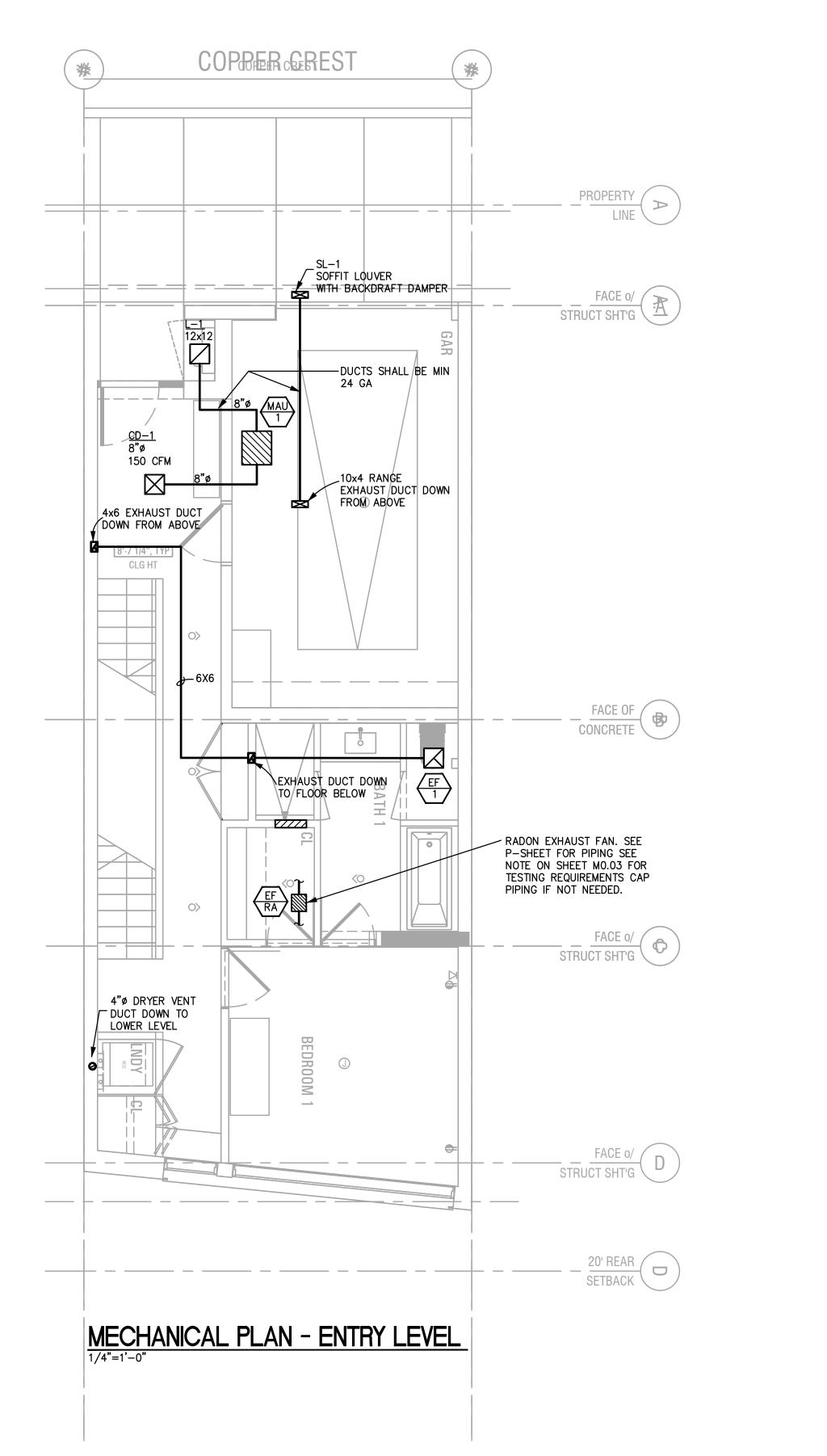
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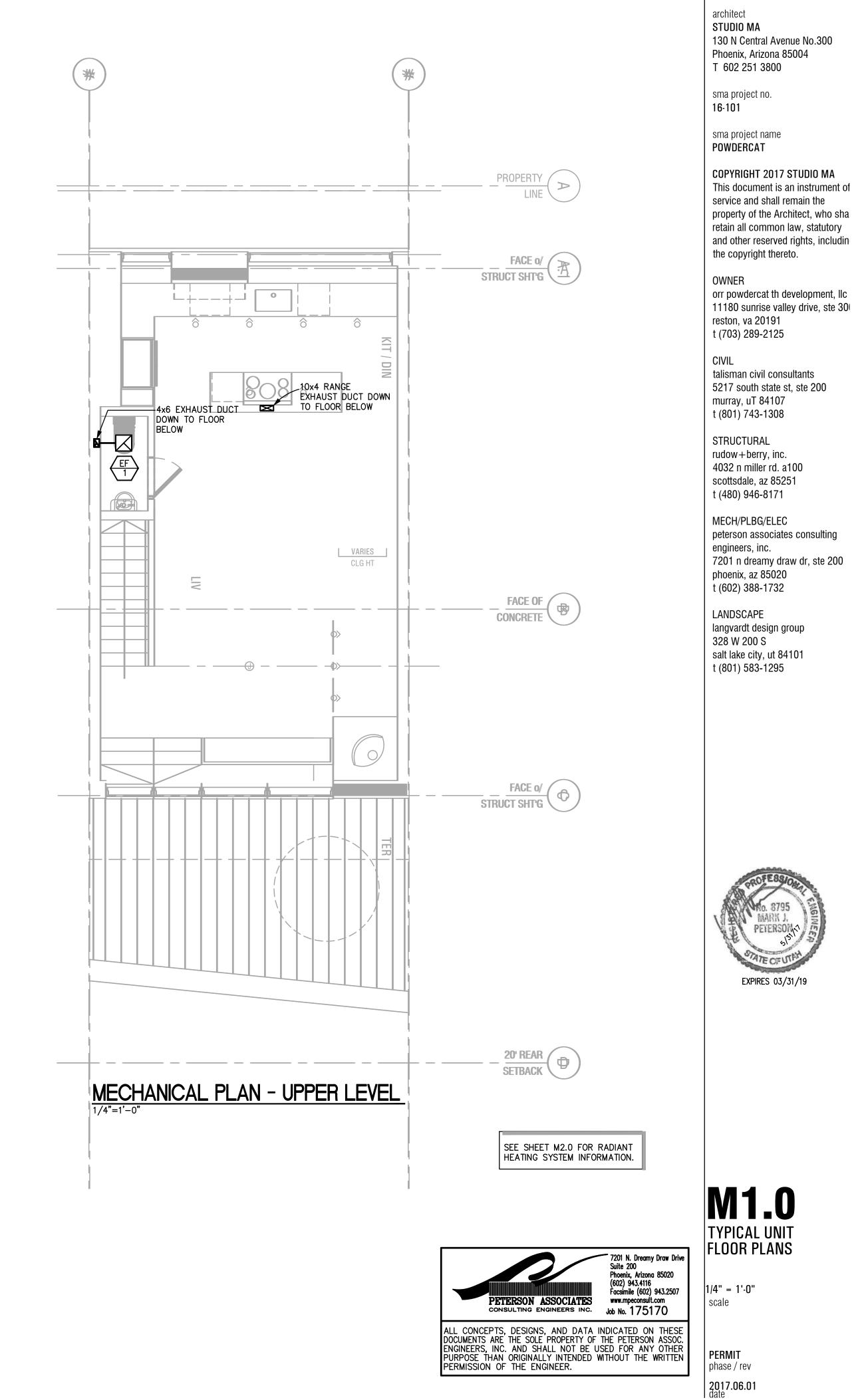


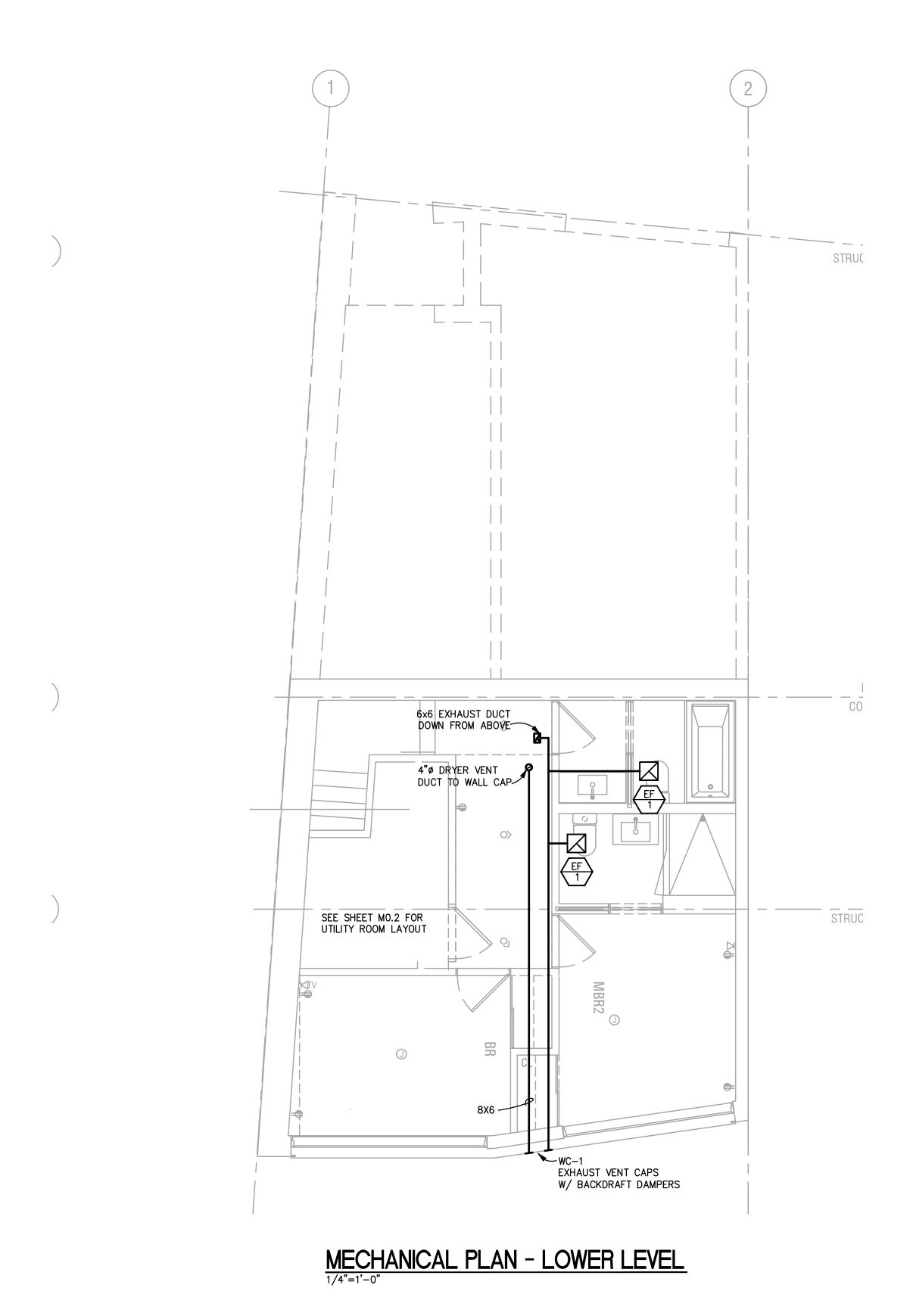
MO.3 MECHANICAL NOTES

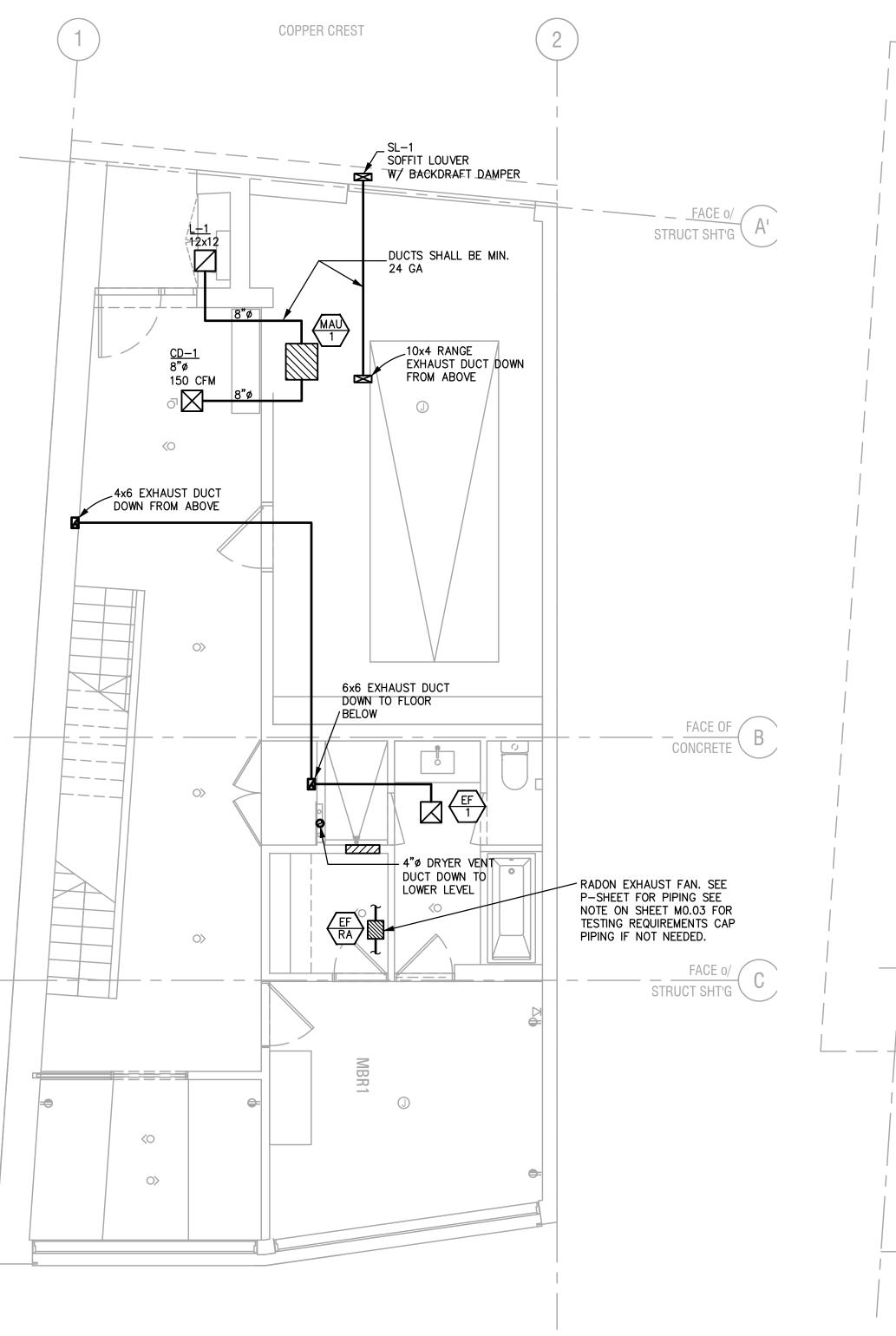
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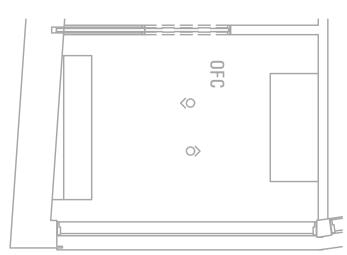


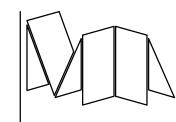


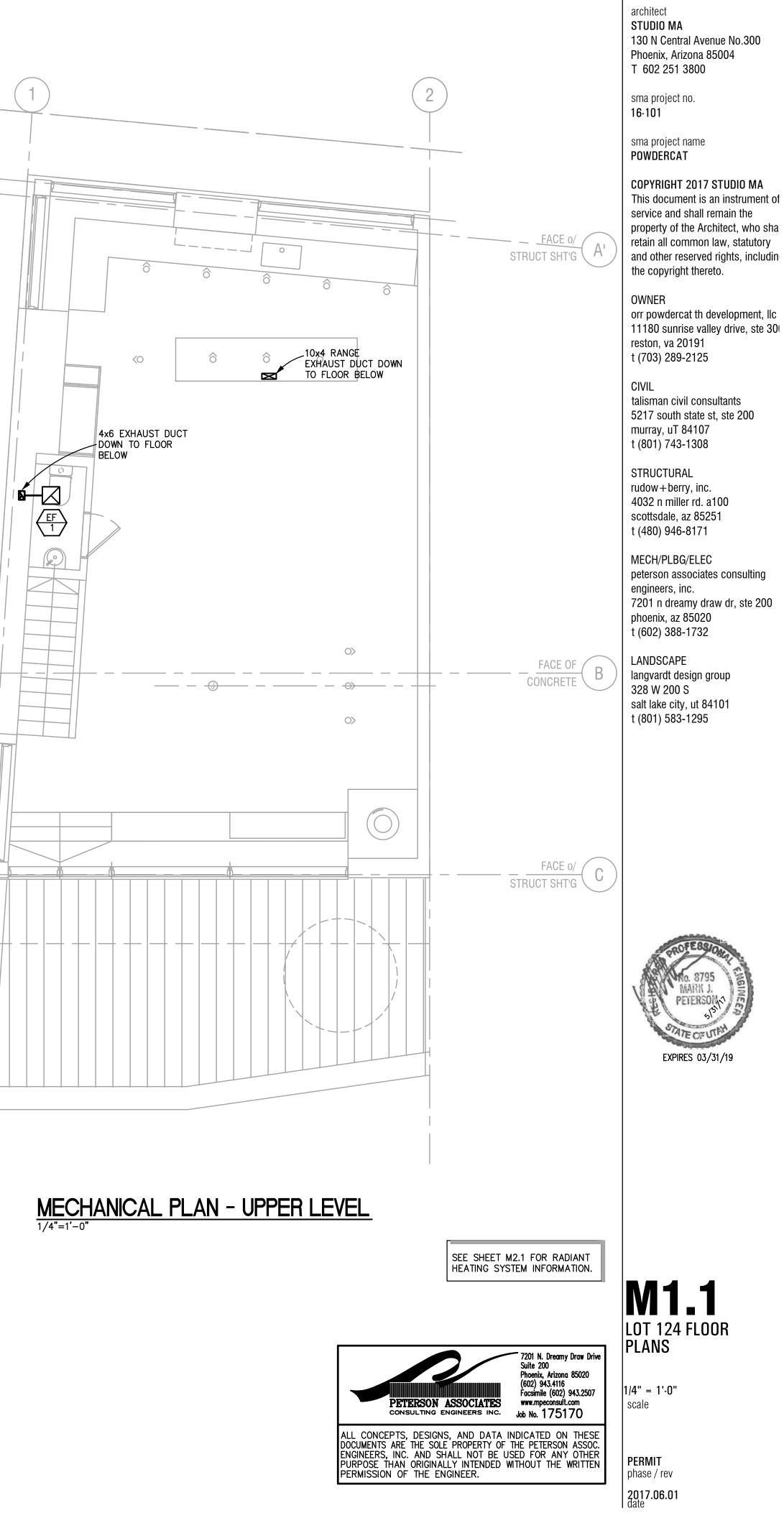


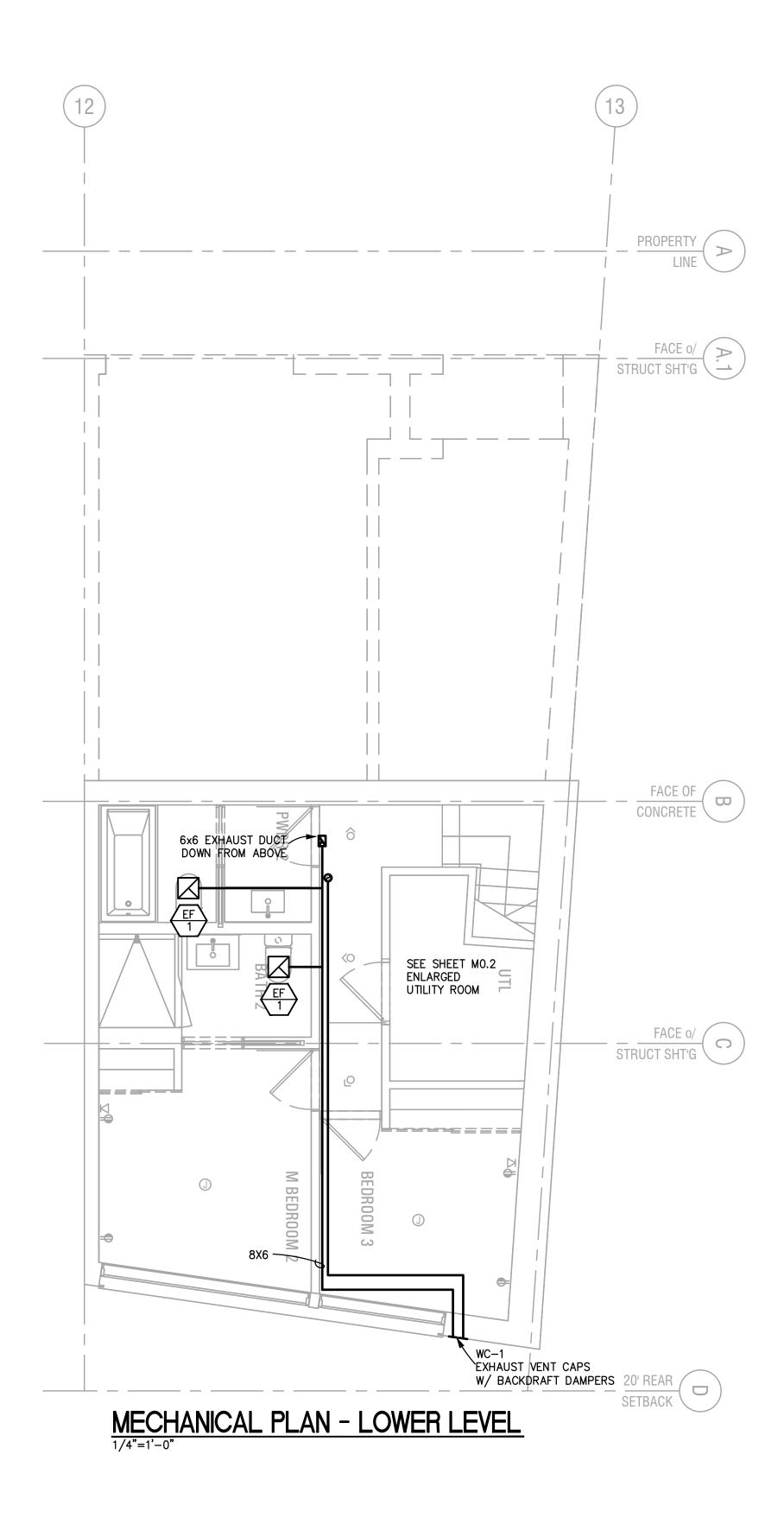
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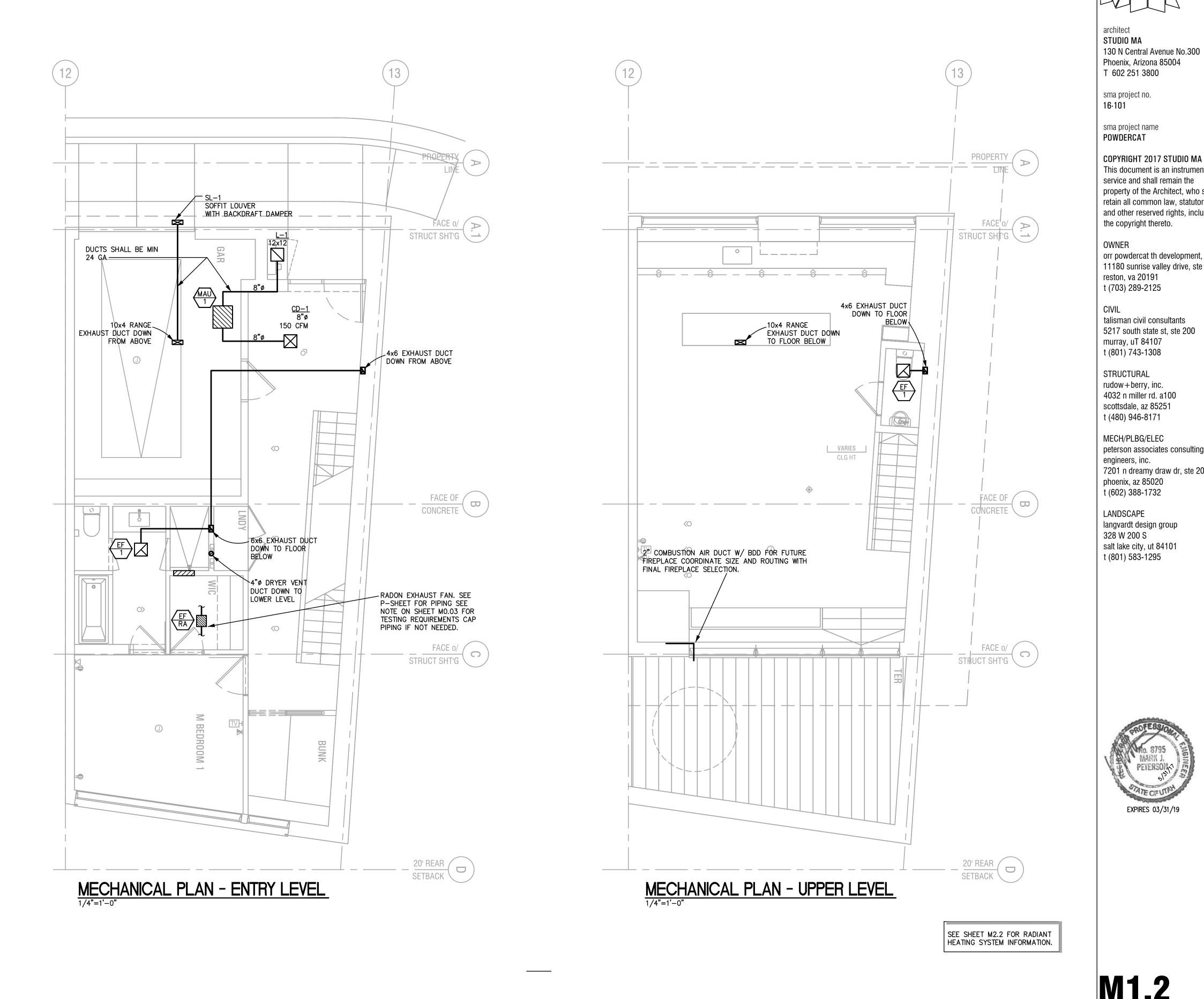
MECHANICAL PLAN - ENTRY LEVEL

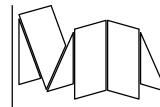












architect



Phoenix, Arizona 85004 T 602 251 3800 sma project no. 16-101 sma project name

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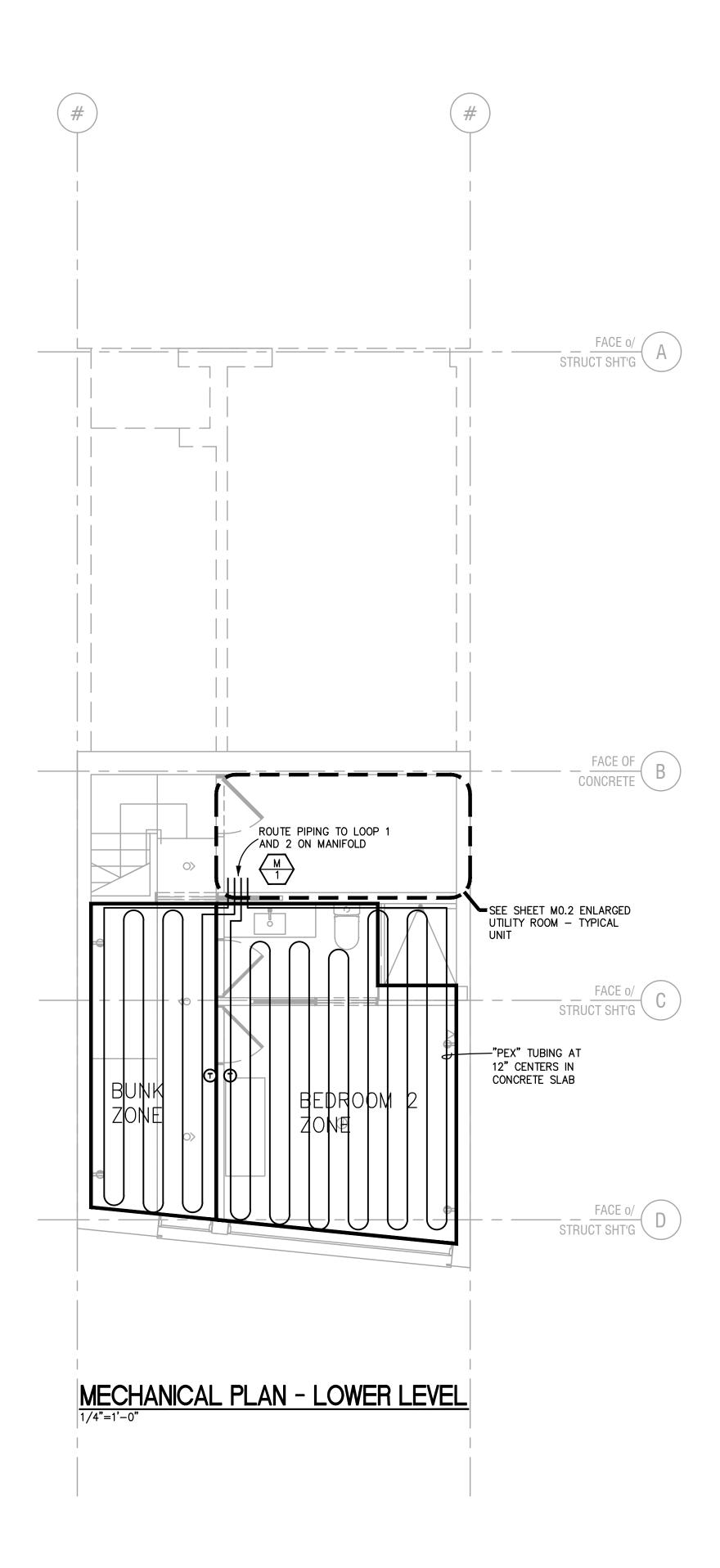
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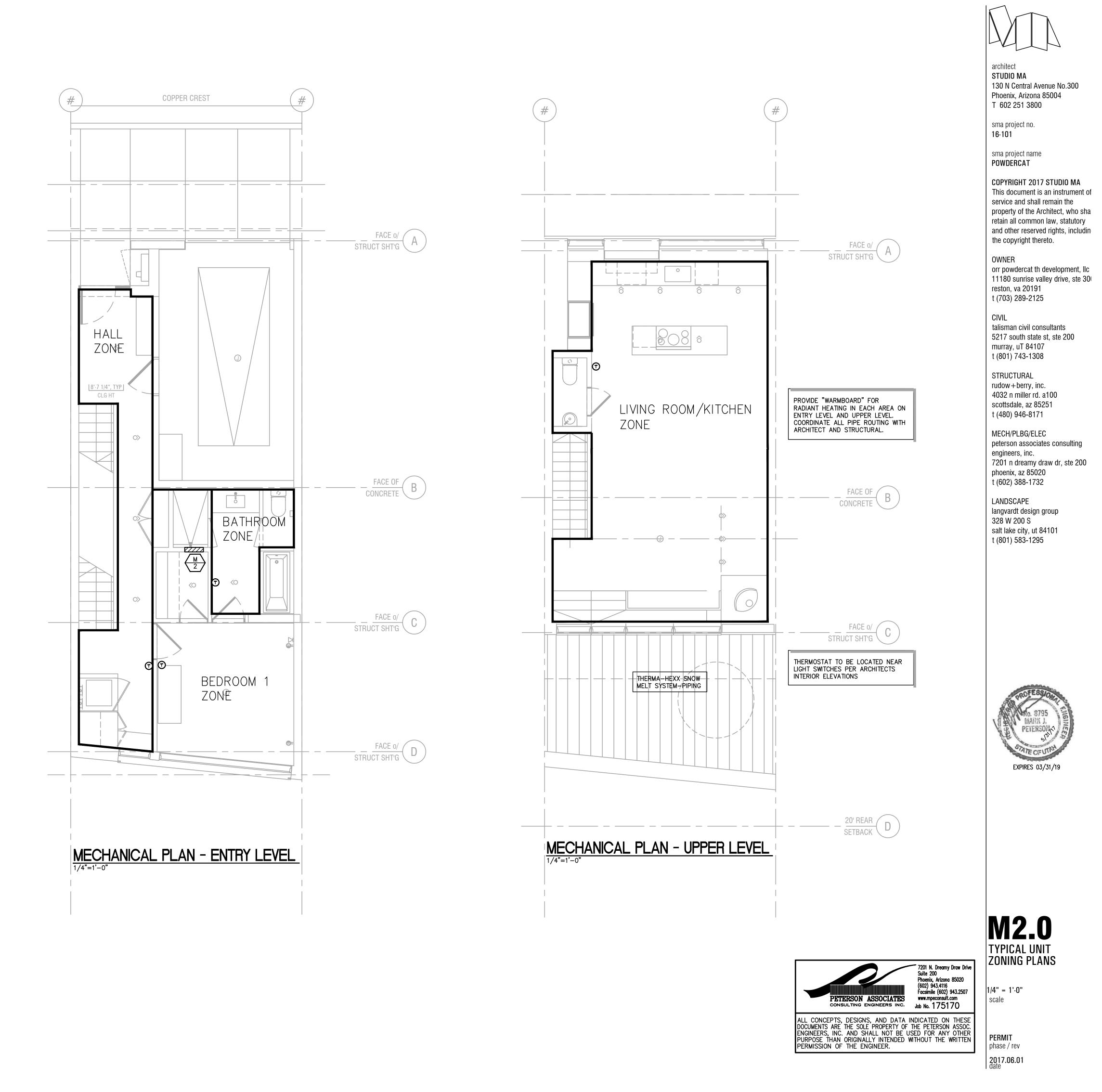
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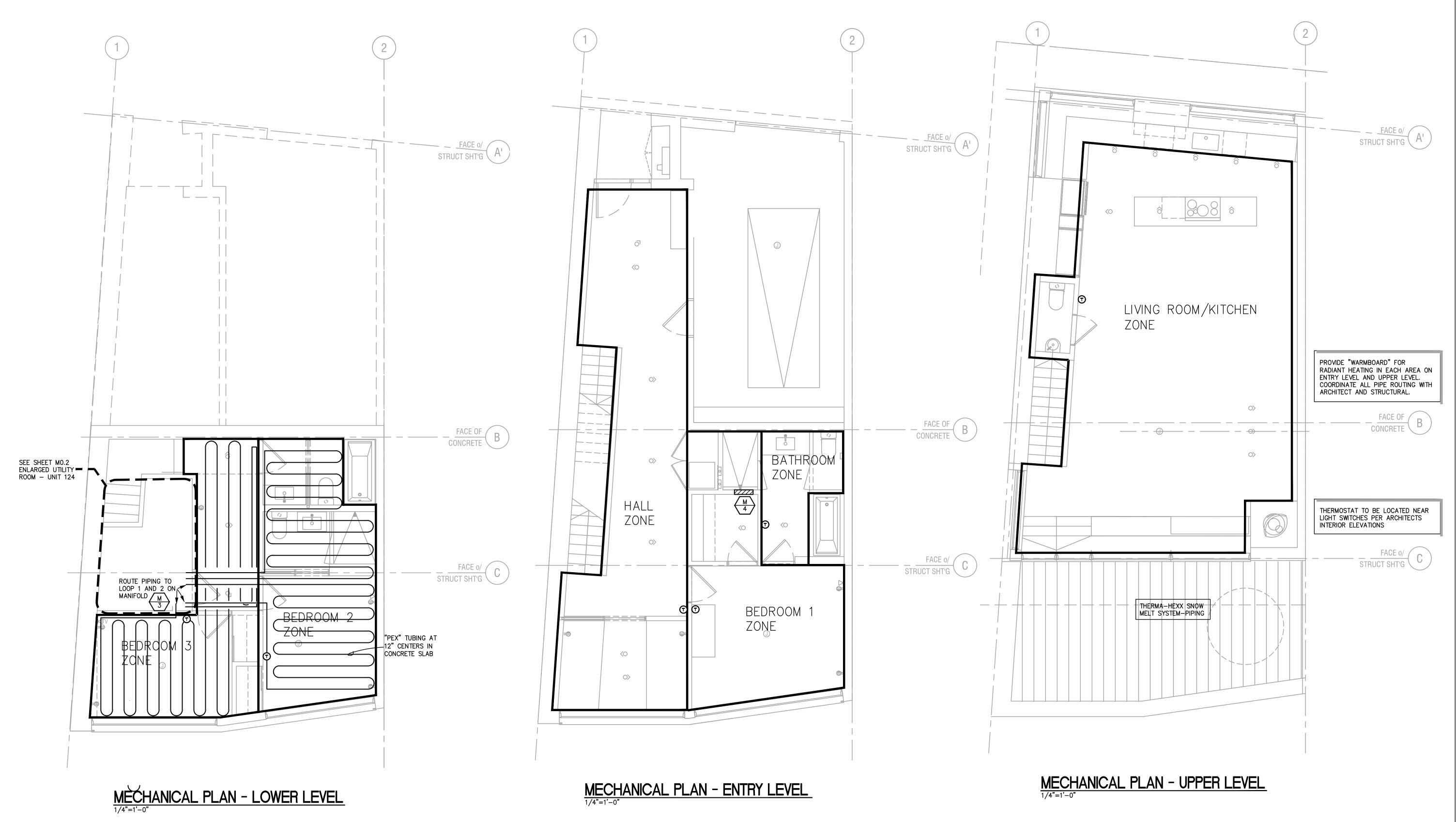


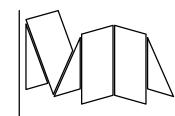
M1.2 LOT 133 FLOOR PLANS

1/4" = 1'-0" scale









architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

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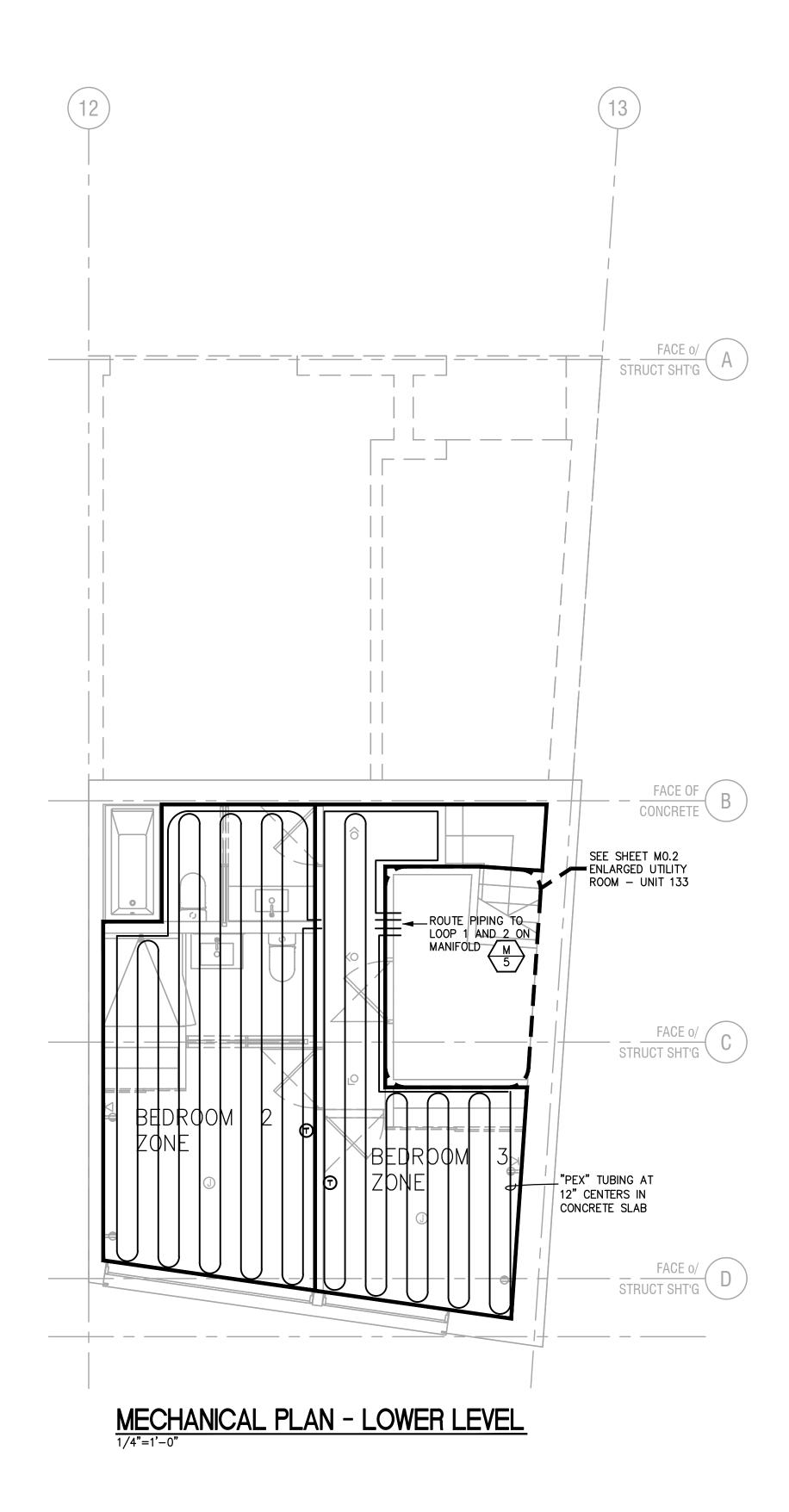


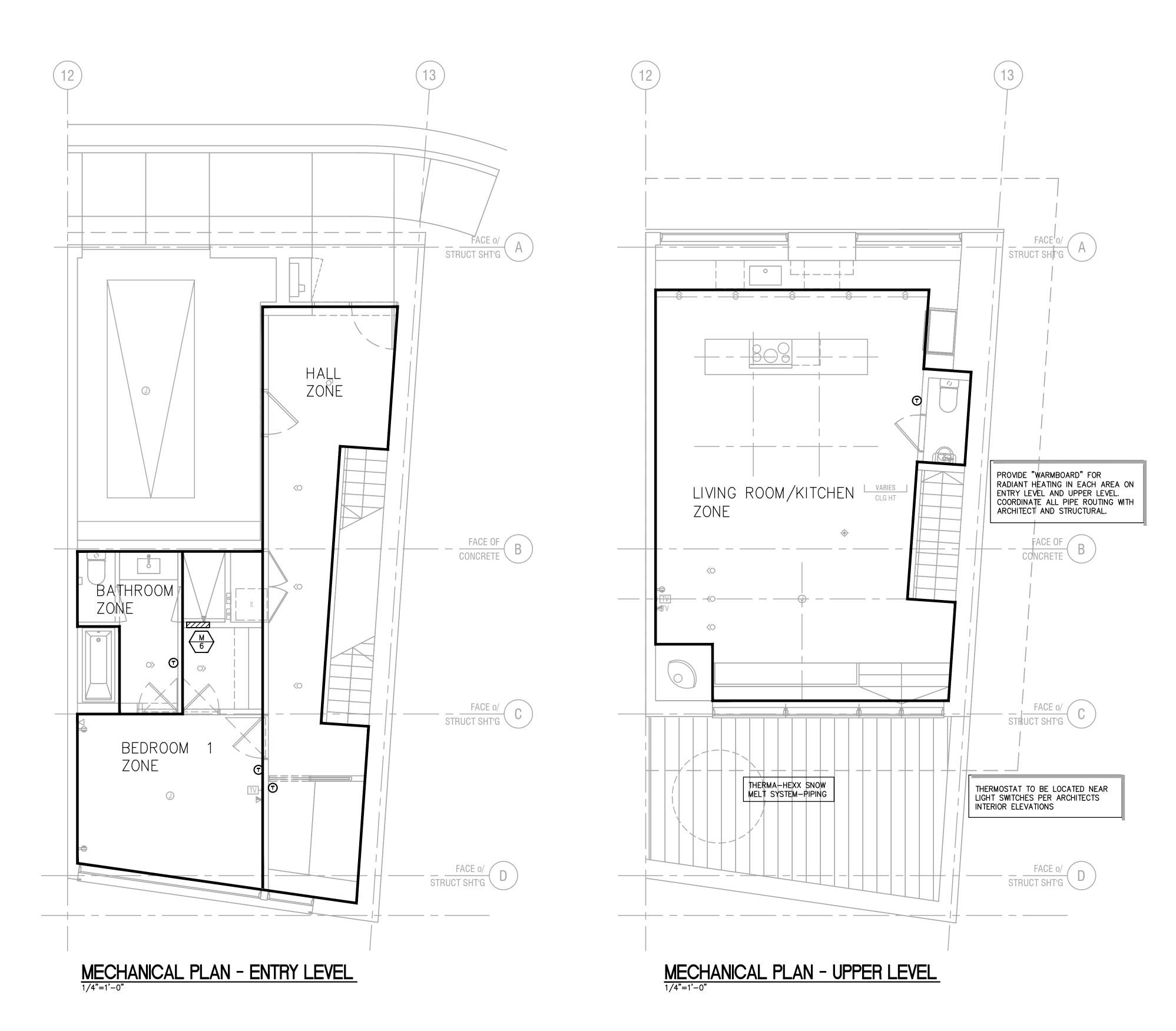
1/4" = 1'-0" scale

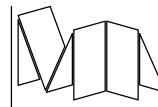
PERMIT phase / rev 2017.06.01 date



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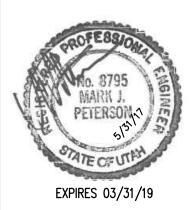
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M2.2 Lot 133 Zoning Plans

1/4" = 1'-0" scale

SECTION 23 0000 MECHANICAL SPECIFICATIONS

PART 1 GENERAL 1.01 SCOPE OF WORK

- A. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complimentary, and what is required by one shall be as binding as if required by all. The Performance by the Contractor shall be required only to the extent consistent with the Contract Documents as reasonably inferable from them as necessary to produce the intended results.
- 1. The Contractor shall refer to all project drawings and specifications prior to submission of bid and include monies to provide a complete and functioning system. Reference drawings include, but are not necessarily limited to, Civil, Architectural, Structural, Electrical, Plumbing and Fire Protection.
- 2. Work Included: Unless specified otherwise, provide all labor, materials and equipment necessary for completely finished and operational mechanical systems. Provide all minor incidental items such as offsets, fittings, etc. required as part of the Work even though not specified or indicated. All materials used shall be of domestic manufacturers. No foreign material will be allowed.
- 3. Description of Systems: The work includes but is not limited to:
- a. Heating, Ventilating and Air Conditioning System(s).
- 4. Drawings are diagrammatic. Refer to Civil, Electrical, Plumbing, Fire Protection, Architectural and Structural Drawings and specifications for information on equipment furnished and installed by others which may conflict with rough-in or equipment locations. Coordinate Mechanical system components with all other Disciplines' Work. No adjustment in contract price will be made for failure to review or coordinate work prior to fabrication and/or installation.
- 5. Inconsistencies. In the case of any inconsistency between drawings and specifications or within either document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Engineer's interpretation.

1.02 INSPECTION AND TESTS

A. Furnish Architect with certificate of inspection and approval by local authorities and required test reports prior to final acceptance of the project by the Architect. All work must be inspected and tested per local code requirements.

1.03 PROJECT COORDINATION

- A. All Contractors shall be responsible for coordinating Work with other trades and for cutting and re-finishing of existing walls, floors, solid and suspended ceilings, etc., where required by Work shown and noted herein. Install all Work to clear new and existing architectural and structural members. Items such as pipe, fittings, etc., shall not be installed in conflict with equipment. Coordinate all cutting and patching with the General Contractor. Subcontractor shall be responsible for all cutting and patching of his Work. Obtain written permission of Architect before proceeding with any cutting or patching of structural systems.
- B. Any discrepancies which may affect the Contractor's bid shall be brought to the attention of the Engineer and Architect for direction.
- C.During construction, coordinate use of site and facilities and work sequence to meet the project requirements. D. Contractor shall coordinate with Electrical Subcontractor to insure proper electrical
- voltage requirements for all mechanical equipment. E. Coordinate exact location of ceiling outlets with lighting plan and Architectural

Drawings. 1.04 FIELD VERIFICATION

A.Contractor shall visit the job site and familiarize himself with all existing conditions which may affect his bid. All existing equipment, ductwork, air distribution devices, thermostats, controls and piping are shown on the drawings for reference only. No allowances will be made after the bid for existing conditions or the Contractor's failure to verify existing conditions.

B. The following items shall be verified:

- 1. Exact placement, size, capacity, manufacturer and condition of all existing HVAC equipment within the scope of work whether specifically shown on the drawings or not.
- 2. Size and location of all existing ductwork.
- 3. Structural members which may be in conflict with new work.
- 4. Size and location of all existing grilles, registers, louvers and diffusers. Type and location of all thermostatic control devices.
- 6. Size and location of all existing hydronic piping, valves and controls.
- C. Any discrepancies which may affect the Contractors bid shall be brought to the

attention of the Engineer and Architect for direction.

- 1.05 SUBMITTALS
- A.See Architectural Administrative Requirements, for submittal procedures. B. Product Data: Provide shop drawings and manufacturers' product data and catalog information on the following:
- 1. All HVAC equipment, including roof curbs, controls, etc.
- 2. Air distribution systems, including ductwork, fittings, insulation, fire dampers.
- diffusers, grilles, balancing dampers, sound attenuators, etc. 3. Hydronic distribution systems, including piping, valves, fittings, insulation, air
- separators, expansion tanks, etc. C.Project Record Documents: Provide Digital (PDF) of Record Documents and peration manuals, diagrams, service contracts, guarantees, etc. for Owner's use.
- Record actual locations of all ductwork, piping, valves or equipment and incorporate into the Record Documents to show the final "Installed" conditions. D. Submit only those manufacturers listed on the drawings or in the specific section
- unless prior approval was obtained. E. Submit shop drawings and product data grouped to include complete submittals of
- related systems, products, and accessories in a single submittal. Partial submittals will not be reviewed by the Engineer. F. Mark dimensions and values in units to match those specified.
- G.Clearly identify specific components on multi-item equipment or data sheets.
- H. The Installing Contractor shall review all submittals for compliance with plans and specifications. The contractor shall stamp each item in the submittal indicating that the review process has been completed
- I. Any discrepancies in the submittals from the requirements of the plans and specifications shall be noted by the Installing Contractor. If major discrepancies, errors, or product omissions are found, the Installing Contractor shall correct the
- submittals before forwarding for review by the Engineer. 1.06 REQUEST FOR INFORMATION
- A.Requests for information are to be submitted to the Architect/Engineer by the General Contractor.
- B. Sufficient back-up information shall be included to describe the situation. Where possible a suggested solution shall be included to facilitate response time.
- 1.07 QUALITY ASSURANCE A.Manufacturer Qualifications: Company specializing in manufacturing products
- specified in this section, with not less than three years of experience. B. Installer Qualifications: Company specializing in performing the work of this section
- with minimum five years of experience. C.Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.
- 1.08 REGULATORY REQUIREMENTS
- A. All materials, equipment and installation must comply with all applicable laws, codes, rules, and regulations, required by City, County and State, as well as Federal requirements.
- 1.09 WARRANTY
- A. Contractor shall guarantee all materials, equipment and workmanship from defect and shall replace or repair, without additional cost to the Owner, all defective material, equipment and workmanship for a period of one year after Date of Substantial Completion.
- B. Submit manufacturers' warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- PART 2 PRODUCTS
- 2.01 ACCEPTABLE MANUFACTURERS

- D. Acceptable Manufacturers:
- 1. Pumps: Armstrong, Taco 2. Underfloor Radiant Panels: Warm Board
- 5. Valves: Apollo, Nibco, Milwaukee, Crane
- the Architect's requirements.
- higher than 50.

- 2.04 ELECTRIC MOTORS frequency and service as scheduled.
- the specific function for which it is intended.
- lubrication.

without injurious overheating.

- 2.05 MOTOR STARTERS
- 2.06 ACCESS DOORS
- plans for details

2.07 SLEEVES, INSERTS, ANCHORS AND SUPPORTS

- pipes, conduits or ducts.
- 2.08 FIRESTOPPING

hold the escutcheon tight to the pipe.

- requirements 2.11 THERMOSTATS
- - System.
- 2. Service: heating. exact location with Architect

- with ASTM E-814 requirements.
- 2.09 ESCUTCHEONS
- finished appearance.
- 2.10 FLASHINGS

- A.Electric Room Thermostats:

A.Manufacturer's names and catalog numbers are scheduled or specified for the purpose of establishing standard of design, quality, appearance, performance and serviceability, and not to limit competition. Scheduled products (as may be modified by detailed specifications) are those selected as the basis for system design with respect to physical size and space arrangements, required capacity and performance characteristics, and the product quality intended.

B. The Drawings indicate specified products physically arranged in the spaces, as cataloged by specific manufacturers, generally as listed in the Equipment Schedules. C.Listed "Acceptable Manufacturers" are those considered capable of manufacturing products conforming to detailed Specifications, as as such, are invited to compete on an equal basis provided the offering is comparable in every respect to scheduled or specified products and actually conforms to the detailed Specifications and Schedule requirements. Listing herein as "acceptable manufacturers" does not imply "accepted", "approved", "prior approval", or any other such connotation. All product offerings must be submitted for approval after Contract award.

3. Exhaust and Supply Fans: Greenheck, Cook, Twin City

4. Grilles, Registers and Diffusers: Sieho, Air Concepts

6. Flow Controls: ITT Bell & Gossett, Griswold, Taco, Warm Board E. Substitutions of materials or products shown herein shall be at the Owner's, Architect's or Engineer's written approval only and must be made in accordance with

2.02 FLAME SPREAD AND SMOKE DEVELOPED PROPERTIES OF MATERIALS A.Material and adhesives used throughout the mechanical systems for insulation, acoustical lining, filters, ducts, flexible connections, and jackets or coverings

regardless of kind, or for piping or continued combustion and with a smoke developed rating not higher than 50. If such materials are to be applied with adhesives, they shall be tested as applied with such adhesives, or the adhesives used shall have a flame spread rating not over 25 and a smoke developed rating not

B. "Flame Spread Rating" and "Smoke Developed Rating" shall be as determined by the "Method of Test of Surface Burning Characteristics of Building Materials, NFPA No. 255, ASTM E84, Underwriters Laboratories, Inc., Standard". Such materials are listed in the Underwriters Laboratories, Inc. "Building Materials List" under the heading "Hazard Classifications (Fire)".

2.03 IDENTIFICATION OF PIPING, AND EQUIPMENT

A. Markings - Identify each piping system installed wherever accessible for maintenance operations with the direction of flow (where applicable) indicated by legends and flow arrows. The markings shall be applied after all painting and cleaning of the piping and insulation is completed.

B. Apply identification to piping throughout, the mechanical rooms and valve boxes

A. Shall conform to the requirements of IEEE, NEMA, and shall have voltage, phase,

B. Each item of motor driven equipment shall be furnished complete with the motors, drives and control equipment, including remote pilot devices as required to perform

C.Motors shall be sleeve or ball bearing type selected for quiet operation, shall be manufactured for general purpose duty, with each bearing accessible for lubrication,

and designed for the load imposed by the drive. D.Motors 1/2 horsepower and larger shall have bearings with pressure grease

E. Motors connected to drive equipment by belt shall be furnished with adjustable slide rail bases except for fractional horsepower motors which shall have slotted bases. Motor leads shall be permanently identified and supplied with connectors.

F. Each motor shall be suitable for the brake horsepower of the driven unit, rated with 1.15 minimum service factor, with the temperature rise not to exceed NEMA standards and shall be capable of withstanding momentary overloads of 25 percent

A.Except where otherwise specified or scheduled, each starter shall be furnished by the supplier who furnishes the equipment it controls.

B. Provide a manual or magnetic starter for each motor. They shall be as recommended by the equipment manufacturer.

A.Furnish, for installation under appropriate Section of the Work, access doors at each point required to provide access to concealed valves, dampers, damper operators, and other devices requiring operation, adjustment, or maintenance. See architects

A.Provide in concrete, carpentry or masonry construction, hangers, sleeves, expansion bolts, inserts, supporting steel, or other fixtures necessary for the support of pipe, equipment and devices furnished under each Section of the Specifications. B. Provide each pipe, conduit, or duct passing through fire, smoke or sound control walls, floors, ceilings or partitions with sleeves having internal dimension approximately 1-inch larger than the outside dimension (including insulation) of

C.Sleeves (when required) through interior partitions and floors shall be no less than 22 gage galvanized steel, set flush with the finished surfaces.

A. Seal annular spaces between sleeves and penetrating materials in fire rated floors, ceilings, and walls with fireproof and waterproof silicone elastomer applied in accordance with the manufacturer's published instructions. Multiple penetrations shall be sealed with silicone calking. Seal material shall be UL classified for use in fire rated penetration seals, and shall be applied in the manufacturer's recommended thickness for the fire rating of the penetrated structure in accordance

A. Provide escutcheons or 22 gage minimum painted galvanized sheet metal wall flanges (in event standard manufactured product does not exist) for mechanical or electrical penetrations of floors, ceilings, walls or partitions. Escutcheons shall be sized to enclose the outside of the penetration sleeve and fit snugly to the pipe (or over outside of insulation) of insulated lines. Both exposed surfaces of such penetrated elements shall be fitted with escutcheons which shall both afford a

B. Except where otherwise specified, escutcheons shall be one-piece (where practicable) or split, hinged, stamped brass type designed to fit the pipe, and to cover the terminating pipe sleeve, in chrome plated finish, with securing device to

A.Furnish weatherproof flashings for mechanical system related openings through the roof for installation under roofing specification. See arch drawings for all flashings

1. Type: NEMA DC 3, 24 volts, with setback/setup temperature control. Thermostats shall be Wi-Fi compatible for integration into Home Automation

a. Seven day programmable with set-back capabilities per current IECC.

B. Thermostats must be located 48" above finished floor to centerline of device. Verify

2.12 DUCTWORK

- A.Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, International Mechanical Code and as indicated. Provide duct material, gages, reinforcing, and seal all longitudinal and transverse joints with DP-1010, for operating pressures of 2.0" static pressure and below. B. Each duct system shall be complete with all required ductwork fittings, turning
- vanes, splitter dampers and supports. C.Galvanized Steel Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type B, with G90 coating.
- D. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold resistant
- 1. Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer for pressure class of ducts.
- Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.
- E. Crossbreak all sides of all ducts. Ductwork shall have no objectionable noise, and Contractor shall provide any additional stiffeners required.
- F. All longitudinal seams shall be Pittsburgh lock seam, hammered flat, with all transverse joints sealed airtight.
- G.Construct T's bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows must be used, provide air foil turning vanes of perforated metal with glass fiber insulation.
- I. Ductwork shall conform to dimensions on the drawings unless locations of structural members prohibit. In case of changes in dimensions, cross sectional areas shall be maintained. Attach hangers to the top cord of trusses.
- J. All duct sizes shown on the drawings are clear inside dimension. Increase size of
- duct as required to accommodate duct liner. K. All ducts shall be substantially supported with hangers to the structure or otherwise depending on location conditions. Hangers shall conform to all SMACNA and IMC requirements.
- P. Standard 45 degree lateral wye takeoffs unless otherwise indicated where 90 degree conical tee connections may be used.
- Q. Where ducts are connected to exterior wall louvers and duct outlet is smaller than louver frame, provide blank-out panels sealing louver area around duct. Use same material as duct, painted black on exterior side, seal to louver frame and duct. 2.13 DUCTWORK PRESSURE CLASS
- A.General Exhaust: 1 inch w.g. (250 Pa) pressure class, galvanized steel.
- B.Outside Air Intake: 1 inch w.g. (250 Pa) pressure class, galvanized steel. 2.14 DUCTWORK INSULATION
- A.Glass Fiber, Flexible
- 1. Insulation: ASTM C 553; flexible, noncombustible blanket.
- 2. Vapor Barrier Jacket:
- a. Kraft paper with glass fiber yarn and bonded to aluminized film. b. Moisture Vapor Permeability: when tested in accordance with
- 1) ASTM E 96.
- 2) Secure with Pressure sensitive tape.
- B. Duct Liner
- 1. Insulation: Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with poly vinyl acetate polymer or acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G
- 2. Liner Fasteners: Galvanized steel, self-adhesive pad; impact applied; or welded with integral; or press-on head.
- 2.15 GRILLES, REGISTERS AND DIFFUSERS
- A.Furnish and install all grilles, registers, ceiling diffusers and door grilles where indicated. They shall be of size and model called for on the drawings. B. All grilles, registers, and ceiling diffusers must be set flush and true to wall or ceiling to prevent air leakage around edges. All units shall be provided with neoprene
- gasketing around the inside of the frame. C. Check location of outlets and inlets and make necessary adjustments in position to
- conform with architectural features, symmetry, and lighting arrangement. D. All units shall be factory finished, of color selected by the Architect, or as otherwise indicated.
- E. Paint all ductwork, turning vanes, insulation, etc., that is visible through grilles, registers, or ceiling diffusers flat black.
- 2.16 RADIANT HEATING PIPING
- A.Polyethylene Pipe: ASTM F876 or ASTM F877, ASTM F877 cross-linked polyethylene, 100 psig (690 kPa) operating pressure at 180 degrees F (82 degrees
- 1. Fittings: Brass and copper.
- 2. Joints: Mechanical compression fittings.
- B. Composite Polyethylene Pipe: Aluminum tube laminated between two layers of high density polyethylene.
- 1. Fittings: Brass flared compression
- 2. Joints: Fittings adapt to copper tubing or copper tube fittings, threaded pipe and fittings, and copper compression fittings.
- 2.17 UNIONS, FLANGES, AND COUPLINGS A. Grooved and Shouldered Pipe End Couplings:
- 1. Housing Clamps: Malleable iron galvanized to engage and lock, designed to permit some angular deflection, contraction, and expansion.
- 2. Sealing Gasket: C-shape elastomer composition for operating temperature range from -30 degrees F (-34 degrees C) to 230 degrees F (110 degrees C).
- 3. Accessories: Steel bolts, nuts, and washers. B. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier.
- 2.18 BALL VALVES
- A.Up To and Including 2 Inches (50 mm):
- 1. Bronze two piece body, chrome plated brass ball, teflon seats and stuffing box ring, lever handle with balancing stops, solder ends with union.
- 2.19 GLYCOL SYSTEM
- A.Mixing Tank: 10 gallon (40 L) steel drum with fittings suitable for filling and hand
- pump for charging, rubber hose for connection of hand pump to system. B. Storage Tank: Closed type, welded steel constructed, tested and stamped in accordance with ASME BPVC-VIII-1
- <https://global.ihs.com/doc_detail.cfm?rid=BSD&document_name=ASME%20BPVC-VIII-1>; 100 psi (690 kPa) rating; cleaned, prime coated, and supplied with steel support saddles. Construct with tappings for installation of accessories.
- C.Expansion Tank: Diaphragm type with vent fitting with air separator, and automatic air vent. D. Air Pressure Reducing Station: Pressure reducing valve with shut-off valves,
- strainer, check valve and needle valve bypass.
- E. Glycol Solution:
- 1. Inhibited ethylene glycol and water solution mixed 50 percent glycol 50 percent water, suitable for operating temperatures from minus 40 degrees F (minus 40 degrees C) to 250 degrees F (121 degrees C). 2.20 3-WAY CONTROL VALVES
- A.Globe with mixed flow pattern. ASMA B16.5 Class 125 cast bronze with threaded connections.DTFE -V ring, stainless steel trim.
- 2.21 SWING CHECK VALVES
- A.Up To and Including 2 Inches (50 mm): 1. Bronze body, bronze trim, bronze rotating swing disc, with composition disc, solder ends.

- 2.22 HVAC PIPING INSULATION
- A. Heating Systems:
- 1. Radiant Heat: a. Flexible Elastomeric Cellular Insulation:
- 1) Pipe Size Range: All sizes.

Thickness: 1 inch. PART 3 EXECUTION

- 3.01 PROTECTION OF EQUIPMENT
- Project, and during the installation period prior to Owner acceptance. B. The equipment shall be kept clean. Motors and electrical devices shall be covered with suitable materials to prevent dirt or dust accumulation within equipment. Machinery and devices shall be properly oiled and maintained to prevent rusting and deterioration
- C.Repair scratches, mars, or paint deterioration. 3.02 EQUIPMENT SPACE
- cataloged by specific manufacturers, generally as listed in the Equipment Schedules. B. Prepare Shop Drawings indicating the exact physical space requirements for equipment and servicing of equipment actually purchased for each item of equipment involved. NOTE: Physical space required for equipment servicing must be shown on Shop Drawings.
- C.Drawings show pipe and ductwork diagrammatically.
- D. Adhere to Drawings as closely as possible in layout of work. E. Vary run of piping, run and shape of ductwork and make offset during progress of work as required to meet structural and other interferences per accepted Shop Drawings.

Finish with tape and vapor barrier jackets.

connections, and expansion joints.

A.Ream pipe and tube ends. Remove burrs.

Joint Manufacturers Association) Standards.

horizontal plane unless indicated otherwise.

of reinforced concrete beams.

1. Install in accordance with ASME B31.9.

Support horizontal piping as scheduled.

covering and adjacent work.

connected horizontal piping.

multiple or trapeze hangers.

Q.Hanger Spacing for Copper Tubing.

minimum rod size, 1/4 inch (6 mm).

exposed.

painting

damaging the insulation

over 4 inches (100 mm).

flush with slab.

P. Pipe Hangers and Supports:

D.Duct and Plenum; Liner Application:

3.05 HVAC PIPING INSTALLATION

plugs or caps.

required

O.Inserts:

3.03 HVAC DUCTWORK INSTALLATION

to installation.

STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295





I.T.S scale

PERMIT phase / rev 2017.06.01

3.06 CUTTING AND PATCHING

- A. Assume costs and responsibility for cutting and patching required to complete the installation
- B. Surfaces shall be patched to the condition of the adjacent surfaces. 3.07 PAINTING AND FINISHING AND CLEANING
- A. Finish painting (other than factory applied) of mechanical equipment, and its associated piping and ductwork, is scheduled under other Sections. Provide touchup painting of prefinished mechanical products.
- B. Surfaces shall be left clean, debris shall be removed, and equipment shall be furnished in prime coat finish ready for finish coats
- 1. Piping, ductwork and equipment Clean exterior of piping, ductwork and equipment, removing rust, plaster and dirt by wire brushing. Remove grease, oil, and similar materials by wiping with clean rags and suitable solvents.

2. Motors, pumps and other items with factory finish - Remove grease and oil and leave surfaces clean and polished. 3.08 TESTING, ADJUSTING AND BALANCING

I. Water System procedure

- 1. Adjust water systems to provide required or design quantities.
- 2. Use fittings and pressure gauges to determine flow rates for system balance. Where flow metering devices are not installed, base flow balance on temperature difference across various heat transfer elements in the system or pressure difference across chiller or pumps.
- 3. Adjust systems to provide specified pressure drops and flows through heat transfer elements prior to thermal testing. Perform balancing by measurement of temperature differential in conjunction with air balancing.
- 4. Effect system balance with automatic control valves fully open to heat transfer elements.
- 5. Effect adjustment of water distribution systems by means of balancing cocks, valves, and fittings. Do not use service or shut-off valves for balancing unless indexed for balance point.

END OF SECTION

A.Protect equipment from physical damage and deterioration after it is delivered to the

A. The Drawings indicate specified products physically arranged in the spaces, as

F. Install piping and ductwork in furred spaces wherever possible. Run exposed piping

and ductwork parallel to or at right angles to building walls. G.Keep horizontal lines as close to ceiling as practicable. H. Conform to ceiling heights established on architectural construction drawings.

A.Install accessories in accordance with manufacturer's instructions, NFPA 90A, and follow SMACNA HVAC Duct Construction Standards - Metal and Flexible. Contractor shall verify that ductwork will fit where indicated without interference prior

B. All exhaust systems shall have barometric dampers to close when not in operation.

3.04 DUCTWORK INSULATION INSTALLATION A.Install in accordance with manufacturer's instructions.

B. Install in accordance with NAIMA National Insulation Standards. C.Insulated duct conveying air below ambient temperature: Provide insulation with vapor barrier jackets.

3. Continue insulation through walls, sleeves, hangers, and other duct penetrations. 4. Insulate entire system including fittings, joints, flanges, fire dampers, flexible

1. Adhere insulation with adhesive for 100 percent coverage.

2. Secure insulation with mechanical liner fasteners. Refer to SMACNA HVAC Duct Construction Standards - Metal and Flexible for spacing. 3. Seal and smooth joints. Seal and coat transverse joints.

4. Seal liner surface penetrations with adhesive. 5. Duct dimensions indicated are net inside dimensions required for air flow. Increase duct size to allow for insulation thickness.

B. Remove scale and dirt on inside and outside before assembly. C.Prepare piping connections to equipment with flanges or unions. D.Keep open ends of pipe free from scale and dirt. Protect open ends with temporary

E. After completion, fill, clean, and treat systems.

F. Install in accordance with manufacturer's instructions. G.Route piping in orderly manner, parallel to building structure, and maintain gradient. H.Install piping to conserve building space and to avoid interference with use of space. I. Group piping whenever practical at common elevations.

J. Sleeve pipe passing through partitions, walls and floors. K. Slope piping and arrange to drain at low points. L. Provide support and equipment required to control expansion and contraction of

piping. Provide loops, pipe offsets, and swing joints, or expansion joints where

M.Install flexible pipe connectors on pipes connected to vibration isolated equipment. Provide line size flexible connectors. Install in accordance with EJMA (Expansion

N.Install flexible connectors at right angles to displacement. Install one end immediately adjacent to isolated equipment and anchor other end. Install in

1. Provide inserts for placement in concrete formwork.

2. Provide inserts for suspending hangers from reinforced concrete slabs and sides

3. Provide hooked rod to concrete reinforcement section for inserts carrying pipe

4. Where concrete slabs form finished ceiling, locate inserts flush with slab surface. 5. Where inserts are omitted, drill through concrete slab from below and provide through-bolt with recessed square steel plate and nut recessed into and grouted

3. Install hangers to provide minimum 1/2 inch (13 mm) space between finished

4. Place hangers within 12 inches (300 mm) of each horizontal elbow. 5. Use hangers with 1-1/2 inch (38 mm) minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe. 6. Support vertical piping at every floor. Support riser piping independently of

7. Where several pipes can be installed in parallel and at same elevation, provide

8. Provide copper plated hangers and supports for copper piping. 9. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered

1. 1/2 inch (15 mm) and 3/4 inch (20 mm): Maximum span, 5 feet (1500 mm);

S. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

T. Provide access where valves and fittings are not exposed. U.Use eccentric reducers to maintain top of pipe level.

V. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welds. W. Prepare unfinished pipe, fittings, supports, and accessories, ready for finish

X.Install valves with stems upright or horizontal, not inverted. Y. Valves installed in insulated pipe shall be furnished with extended stems to allow the full insulation thickness to be provided and to allow the valve to be operated without



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PLUMBING CONSTRUCTION NOTES

- EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- 2. BEFORE SUBMITTING BID. THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
- 3. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.
- 4. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- 5. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
- 6. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
- . MINIMIZE THE ROOF PENETRATIONS WHEREVER POSSIBLE. TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF. SEE PLAN FOR VENT THROUGH ROOF LOCATIONS.
- 8. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- 9. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- 10. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES FOR SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- 11. VERTICAL STRAIGHT RUNS OR PVC DWV SHALL BE PROTECTED FROM EXPANSION AND CONTRACTION UTILIZING ONE OR MORE OF THE FOLLOWING METHODS:
- PROVIDE A MINIMUM OF 24 INCHES, 45 DEGREE OFFSETS EVERY 30 FEET. PROVIDE CERTIFIED AND LISTED EXPANSION FITTINGS AS MANUFACTURED BY CANPLAS INDUSTRIES, LTD., OR EQUAL, IN VERTICAL RUNS IN EXCESS OF 30 FEET PROVIDED THAT THEY ARE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 12. WHEN WATER PIPE AND SEWERS ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED: • THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT BE LESS THAN SIX (6) FEET. EACH LINE SHALL BE LAID IN A SEPARATE
- TRENCH OR THE SPACE IN BETWEEN FILLED WITH COMPACT FILL. THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH. SAID WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
- WATER SERVICE SHALL BE COPPER TO A MINIMUM 10'-0" OUTSIDE OF BUILDING FOR ELECTRICAL GROUNDING PURPOSES.

LOT 124 WATER CALCULATION

FIXTURE NAME WATER CLOSET (F.T.) LAVATORY KITCHEN SINK DISHWASHER CLOTHES WASHER SHOWER BATHTUB TOTAL FIXTURE UNITS

> 20.0 FIXTURE UNITS = 19.6 GALLONS PER MINUTE (G.P.M.) ADDITIONAL GPM

HOSE BIBB _____

TOTAL DESIGN GPM FOR TYPICAL UNITS 24.6 GPM DESIGN USE 11/2" PIPE ENTRANCE

PIPE LENGTH TAP TO METER PIPE LENGTH METER TO LAST FIXTURE VERTICAL PIPE LENGTH TO HIGHEST FIXTURE TOTAL PIPE LENGTH FITTING LOSS (25%) TOTAL DEVELOPED LENGTH

WATER PIPE SIZING CRITERIA

STREET PRESSURE (TO BE VERIFIED) WATER METER LOSS (0" METER) STATIC LOSS $(35' \times 0.43)$ PRESSURE RESERVED FOR FIXTURES

PRESSURE AVAILABLE FOR PIPING

11.95 PSI / 180 FEET x 100 = 6.64

COPPER BRANCH PIPE SIZING CHART FOR 6.64 PSI LOSS AND MAX VELOCITY OF 7 FPS

| PIPE SIZE | G.P.M. | F.U.(TA |
|-----------|--------|---------|
| 1/2" | 2 | - |
| 3/4" | 6 | 3 |
| 1" | 15 | 10 |
| 1-1/4" | 25 | 35 |
| 1-1/2" | 40 | 85 |
| 2" | 70 | 225 |
| 2 | 10 | 220 |

LOT 133 WATER CALCULATION FIXTURE NAME WATER CLOSET (F.T.) LAVATORY KITCHEN SINK DISHWASHER CLOTHES WASHER SHOWER BATHTUB TOTAL FIXTURE UNITS 20.0 FIXTURE UNITS = 19.6 GALLONS PER MINUTE (G.P.M.) ADDITIONAL GPM HOSE BIBB _____ TOTAL DESIGN GPM FOR TYPICAL UNITS 24.6 GPM DESIGN USE 11/2" PIPE ENTRANCE PIPE LENGTH TAP TO METER PIPE LENGTH METER TO LAST FIXTURE VERTICAL PIPE LENGTH TO HIGHEST FIXTURE TOTAL PIPE LENGTH FITTING LOSS (25%) TOTAL DEVELOPED LENGTH

WATER PIPE SIZING CRITERIA

STREET PRESSURE (TO BE VERIFIED) WATER METER LOSS (0" METER) STATIC LOSS (35' x 0.43)

PRESSURE RESERVED FOR FIXTURES

PRESSURE AVAILABLE FOR PIPING

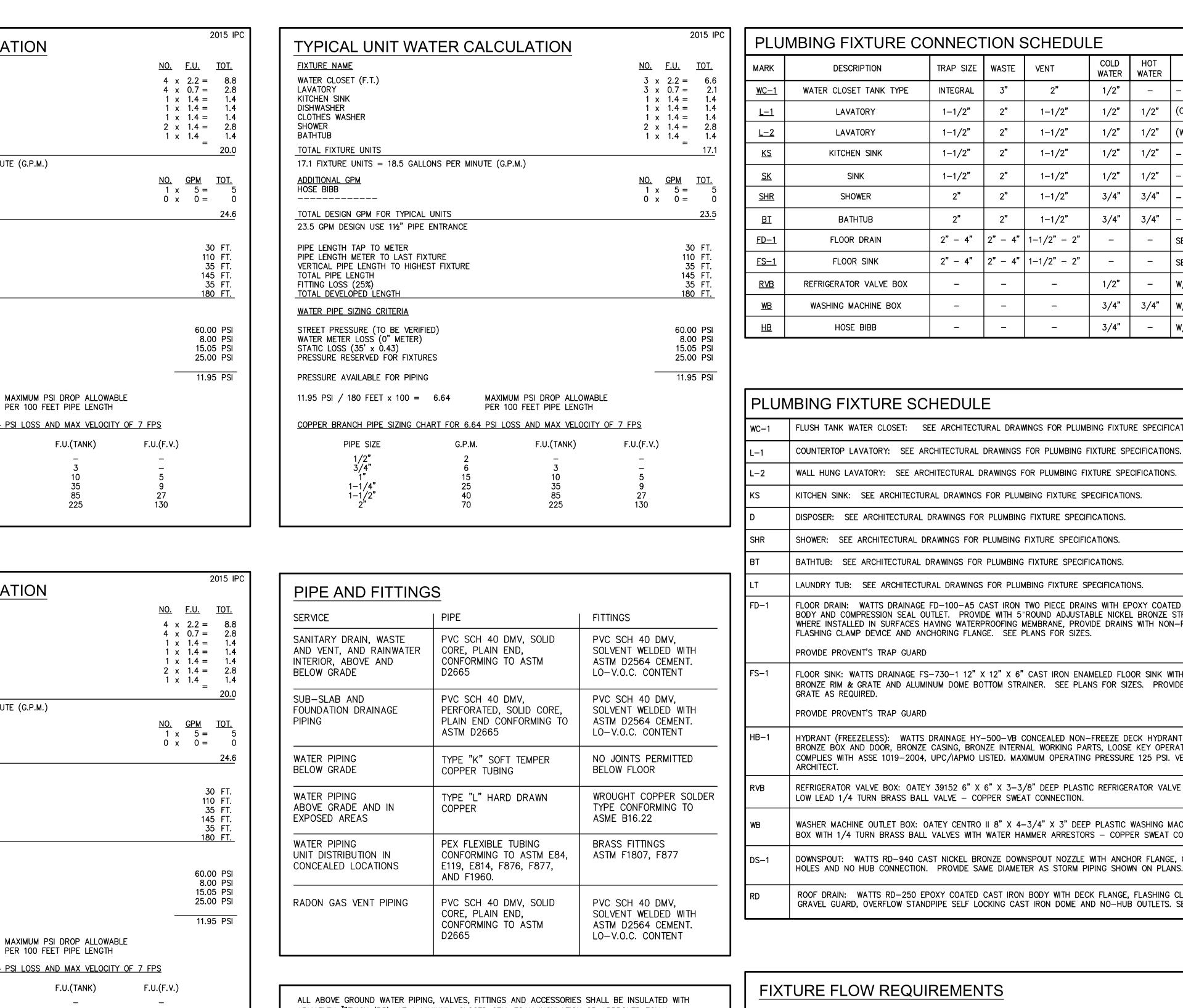
MAXIMUM PSI DROP ALLOWABLE $11.95 \text{ PSI} / 180 \text{ FEET } \times 100 = 6.64$ PER 100 FEET PIPE LENGTH

COPPER BRANCH PIPE SIZING CHART FOR 6.64 PSI LOSS AND MAX VELOCITY OF 7 FPS PIPE SIZE G.P.M. F.U.(TANK)

> 3/4 1-1/4" 25 1 - 1/2" 40 85 225 70

27

130



ARMAFLEX $\frac{3}{4}$ "THICK (R5), AT A MINIMUM, CLOSED CELL FOAM INSULATION OR APPROVED EQUAL. ALL PIPING IN AREAS PRONE TO FREEZING SHALL BE PROVIDED WITH A HEAT TRACING SYSTEM, COORDINATE REQUIREMENTS AND INSTALLATION WITH ELECTRICAL CONTRACTORS.

PEX PIPING INSIDE WALLS, PROVIDE COPPER TUBING AND CHROME PLATED ANGLE STOPS EXITING WALLS AND IN EXPOSED AREAS.

| CIRCL | JLATION PUMP SCH | HEDULE | | | | | | |
|-------------|------------------|--------|--------|--------|-------|---------|------------------------------------|--|
| MARK | MANUFACTURER | MODEL | G.P.M. | FT.HD. | H.P. | V./PH. | REMARKS | |
| <u>CP-1</u> | BELL & GOSSETT | NBF-36 | 4 | 22 | FRAC. | 120V,1ø | 3/4" FLANGE, ALL BRONZE 2—SPEED | |
| | | | | | | | | |

| EXPA | NSION TANK SCHE | DULE | | |
|-------------|-----------------|-------|--------|--|
| MARK | MANUFACTURER | MODEL | GALLON | REMARKS |
| <u>ET-1</u> | AMTROL | ST-8 | 3.2 | THERMAL EXPANSION TANK, 9" DIA. x 15" HIGH |
| | | | | |

ELECTRIC MARK <u>WH-1</u> PXI

SHOWER HEADS

| G FIXTURE CC | NNECT | | SCHEDUL | .E | | |
|--------------------|--------------|---------|-------------|---------------|--------------|--------------------------|
| DESCRIPTION | TRAP SIZE | WASTE | VENT | COLD WATER | HOT WATER | REMARKS |
| R CLOSET TANK TYPE | INTEGRAL | 3" | 2" | 1/2" | - | - |
| LAVATORY | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | (COUNTER-TOP MOUNT) |
| LAVATORY | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | (WALL MOUNT) |
| KITCHEN SINK | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | - |
| SINK | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | _ |
| SHOWER | 2" | 2" | 1-1/2" | 3/4" | 3/4" | - |
| BATHTUB | 2" | 2" | 1-1/2" | 3/4" | 3/4" | - |
| FLOOR DRAIN | 2" - 4" | 2" - 4" | 1-1/2" - 2" | _ | - | SEE FLOOR PLAN FOR SIZES |
| FLOOR SINK | 2" - 4" | 2" - 4" | 1-1/2" - 2" | _ | _ | SEE FLOOR PLAN FOR SIZES |
| IGERATOR VALVE BOX | - | - | - | 1/2" | - | W/ HAMMER ARRESTOR |
| SHING MACHINE BOX | _ | _ | _ | 3/4" | 3/4" | W/ HAMMER ARRESTOR |
| HOSE BIBB | - | _ | _ | 3/4" | _ | W/ VACUUM BREAKER |
| | | | | | | |

PLUMBING FIXTURE SCHEDULE

FLUSH TANK WATER CLOSET: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

WALL HUNG LAVATORY: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

KITCHEN SINK: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

DISPOSER: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

SHOWER: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

BATHTUB: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

LAUNDRY TUB: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

FLOOR DRAIN: WATTS DRAINAGE FD-100-A5 CAST IRON TWO PIECE DRAINS WITH EPOXY COATED CAST IRON BODY AND COMPRESSION SEAL OUTLET. PROVIDE WITH 5" ROUND ADJUSTABLE NICKEL BRONZE STRAINER. WHERE INSTALLED IN SURFACES HAVING WATERPROOFING MEMBRANE, PROVIDE DRAINS WITH NON-PUNCTURING FLASHING CLAMP DEVICE AND ANCHORING FLANGE. SEE PLANS FOR SIZES.

PROVIDE PROVENT'S TRAP GUARD

FLOOR SINK: WATTS DRAINAGE FS-730-1 12" X 12" X 6" CAST IRON ENAMELED FLOOR SINK WITH NICKEL BRONZE RIM & GRATE AND ALUMINUM DOME BOTTOM STRAINER. SEE PLANS FOR SIZES. PROVIDE 1/2 OR 3/4 GRATE AS REQUIRED.

PROVIDE PROVENT'S TRAP GUARD

HYDRANT (FREEZELESS): WATTS DRAINAGE HY-500-VB CONCEALED NON-FREEZE DECK HYDRANT COMPLETE WITH NICKEL BRONZE BOX AND DOOR, BRONZE CASING, BRONZE INTERNAL WORKING PARTS, LOOSE KEY OPERATION AND VACUUM BREAKER. COMPLIES WITH ASSE 1019-2004, UPC/IAPMO LISTED. MAXIMUM OPERATING PRESSURE 125 PSI. VERIFY BURY DEPTH WITH

REFRIGERATOR VALVE BOX: OATEY 39152 6" X 6" X 3-3/8" DEEP PLASTIC REFRIGERATOR VALVE BOX WITH LOW LEAD 1/4 TURN BRASS BALL VALVE - COPPER SWEAT CONNECTION.

WASHER MACHINE OUTLET BOX: OATEY CENTRO II 8" X 4-3/4" X 3" DEEP PLASTIC WASHING MACHINE OUTLET BOX WITH 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTORS - COPPER SWEAT CONNECTION.

DOWNSPOUT: WATTS RD-940 CAST NICKEL BRONZE DOWNSPOUT NOZZLE WITH ANCHOR FLANGE, COUNTERSUNK HOLES AND NO HUB CONNECTION. PROVIDE SAME DIAMETER AS STORM PIPING SHOWN ON PLANS.

ROOF DRAIN: WATTS RD-250 EPOXY COATED CAST IRON BODY WITH DECK FLANGE, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARD, OVERFLOW STANDPIPE SELF LOCKING CAST IRON DOME AND NO-HUB OUTLETS. SEE PLANS FOR SIZES.

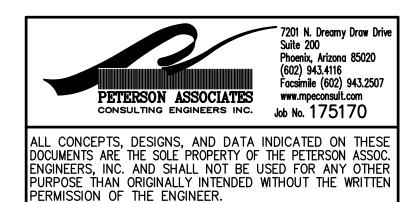
FIXTURE FLOW REQUIREMENTS

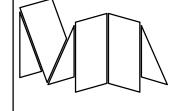
ALL PLUMBING FIXTURES SHALL HAVE FLOW REDUCERS OR BE SO CONSTRUCTED TO MEET THE FOLLOWING REQUIREMENTS BASED ON 2015 NATIONAL GREEN BUILDING STANDARD:

WATER CLOSET (TANK TYPE) LAVATORY FAUCETS KITCHEN SINK FAUCETS

1.28 GALLONS PER FLUSH LESS THAN 2.5 GPM AT 80 PSI 1.5 GPM AT 60 PSI 2.2 GPM AT 80 PSI

| | RHEATER | SCHI | EDL | JLE | | | | | | | |
|-------------------|-----------------------|--------|-----|-------|---------|----|-------|-------|----------|---|---------|
| MODEL | TYPE | STOR. | | ELEC | CTRICAL | | TEMP. | FINAL | RECOVERY | | REMARKS |
| MODEL | | CAP. | KW | VOLTS | PHASE | ΗZ | RISE | TEMP. | G.P.H. | | |
|) SMITH (NT-55 | DOMESTIC HOT WATER | 55 GAL | 5.5 | - | - | 60 | 100 | 120 | 30 | - | |
| | | | | | | | | | | | |





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sma project no. 16-101

sma project name POWDERCAT

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CIVIL talisman civil consultants 5217 south state st, ste 200 murray, uT 84107 t (801) 743-1308

STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171

MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

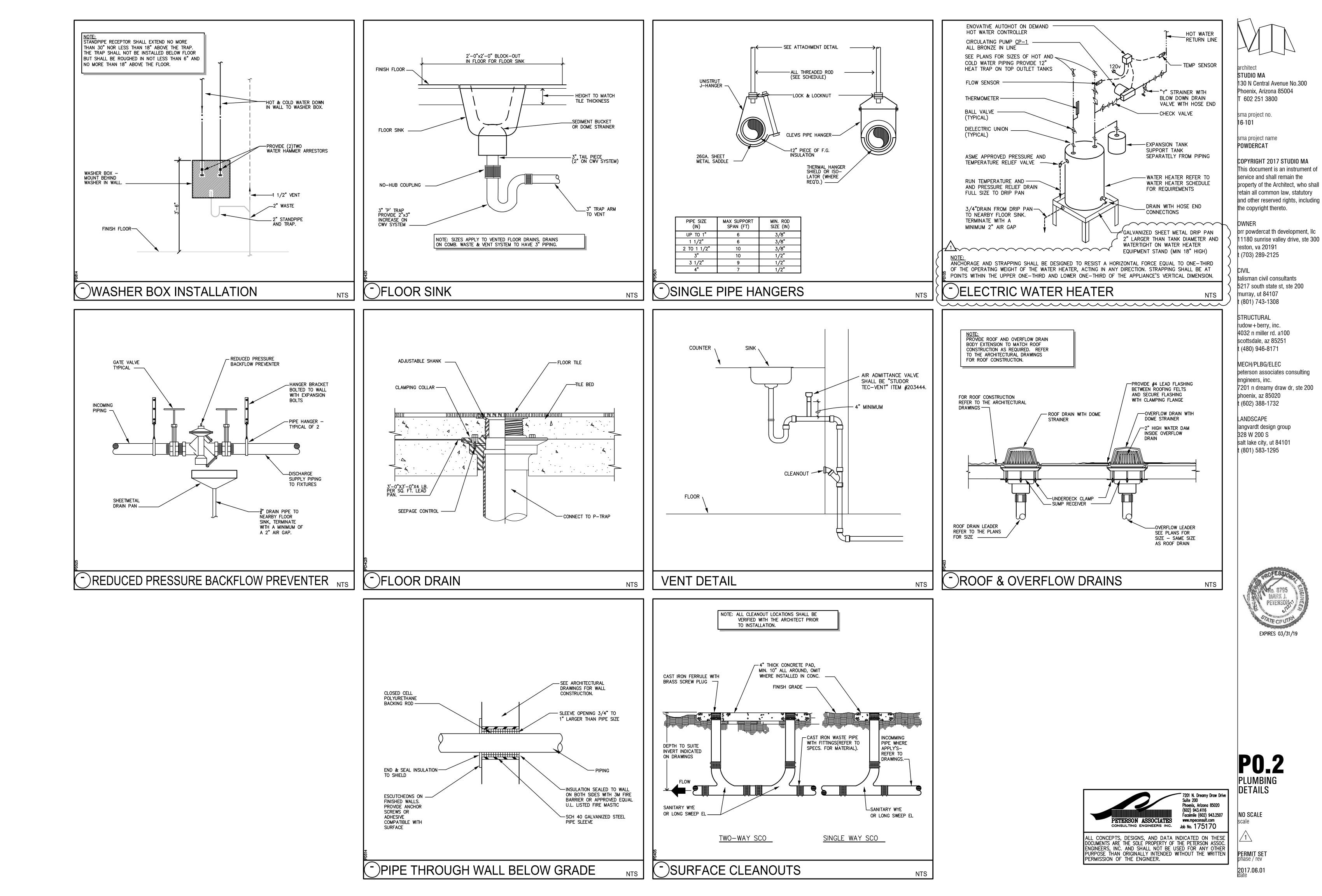
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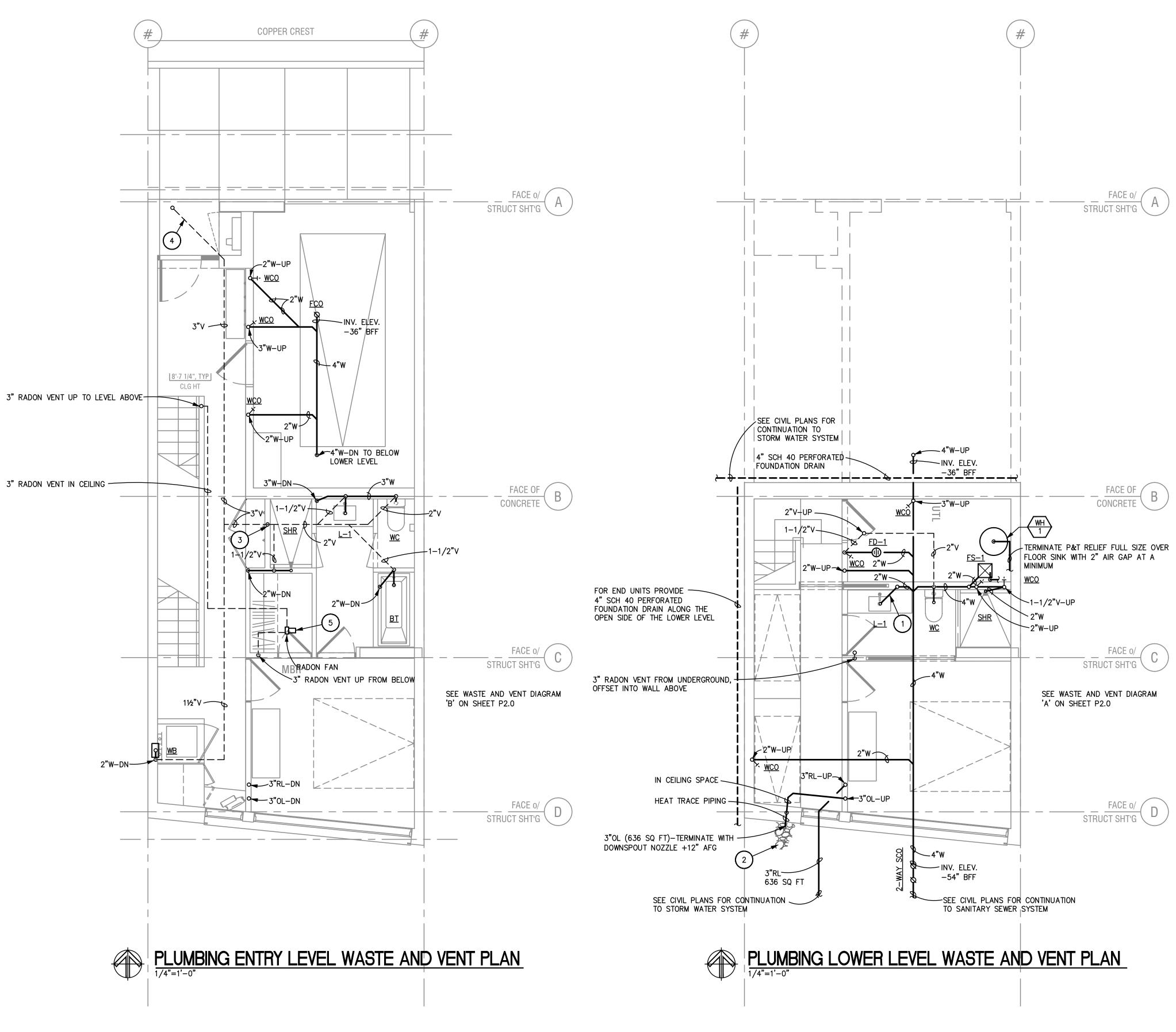




NO SCALE scale

> PERMIT phase / rev 2017.06.01



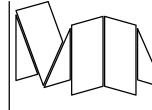


ENTRY LEVEL

LOWER LEVEL

1. COORDINATE P-TRAP UNDER LAVATORY AND WASTE WITH VENT PIPE IN WALL WITH POCKET DOOR CONSTRUCTION.

- 2. PROVIDE 4"-6" SIZE RIPRAP, COLOR TO BE SELECTED BY ARCHITECT, UNDER DOWNSPOUT NOZZLE. EXTEND A MINIMUM OF 18" AWAY FROM BUILDING EDGE.
- 3. 2"V UP FROM FLOOR BELOW. CONNECT INTO 2"V ON THIS FLOOR IN CEILING AREA.
- 4. 3"V UP INTO STRUCTURE ABOVE, OFFSET INTO CORNER OF BUILDING.
- 5. PROVIDE CEILING ACCESS TO RADON FAN, COORDINATE WITH ALL OTHER TRADES. SEE MECHANICAL DRAWINGS FOR FAN AND TESTING REQUIREMENTS.



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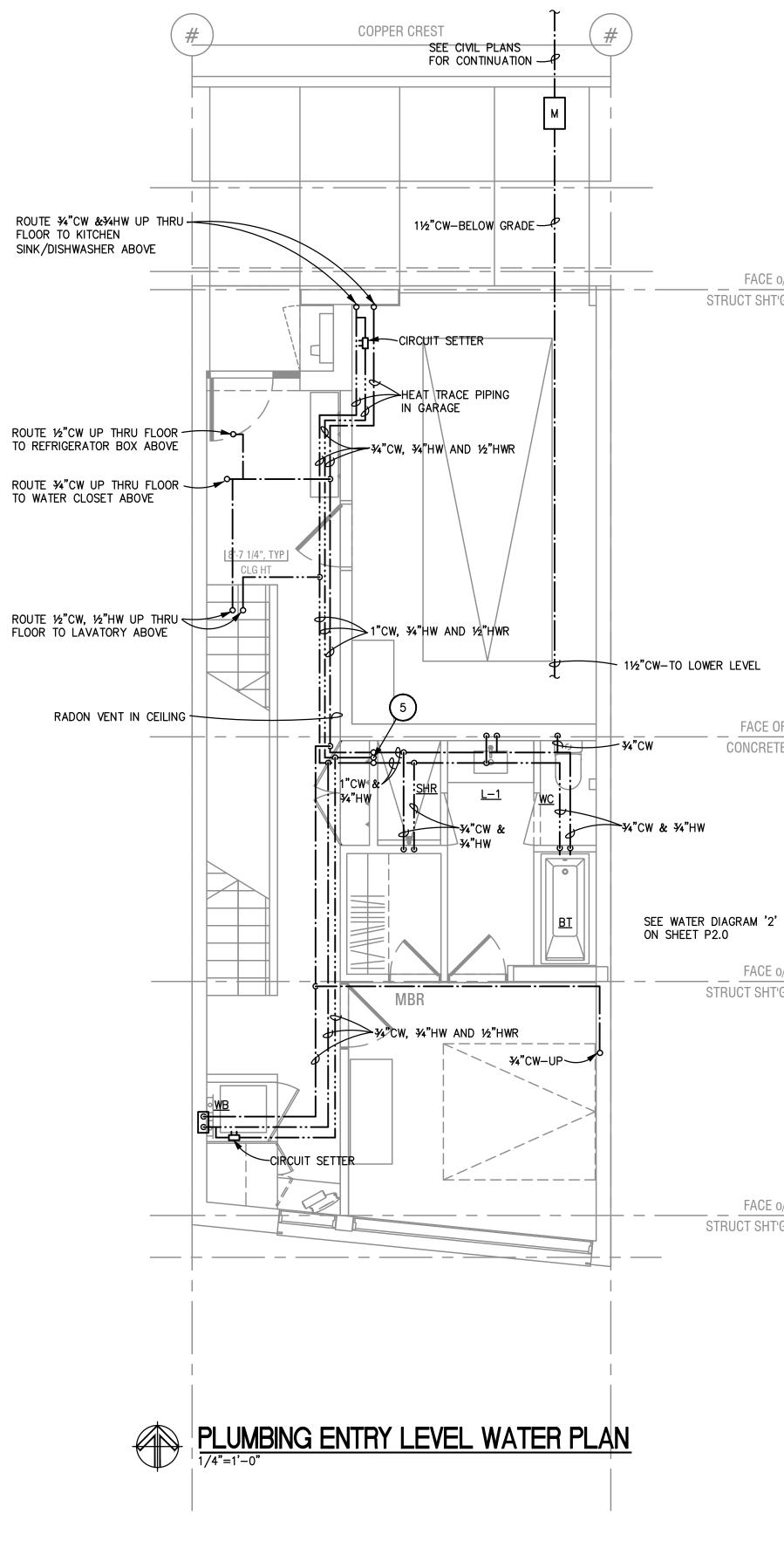


P1.0 TYPICAL UNIT ENTRY AND LOWER LEVEL FLOOR PLANS

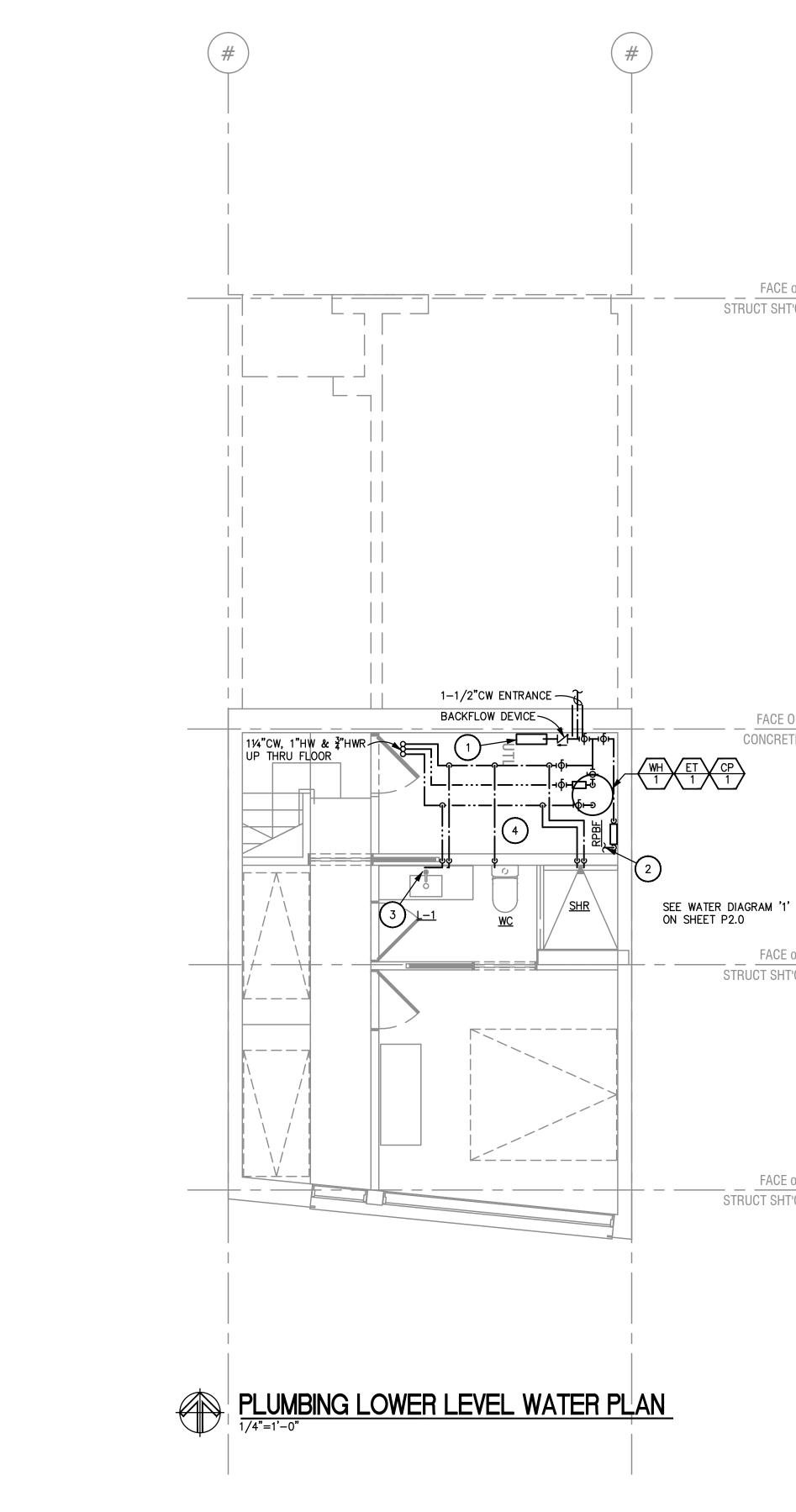
1/4" = 1'-0" scale

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ENTRY LEVEL



FACE o/ D STRUCT SHT'G

FACE o/ /

FACE OF /

FACE o/ /

STRUCT SHT'G

CONCRETE

STRUCT SHT'G

LOWER LEVEL

KEYED NOTES:

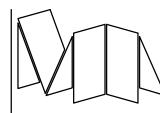
- 1. RESIDENTIAL FIRE RISER MANIFOLD.
- 2. 1"WATER MAKE-UP TO UNDER FLOOR HEATING SYSTEMS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 3. COORDINATE THE PLACEMENT OF THE ANGLE VALVES AND ROUTING OF SUPPLIES TO THE LAVATORY WITH THE POCKET DOOR CONSTRUCTION.
- 4. COORDINATE LOCATION OF PIPES AND ACCESSORIES WITH ALL OTHER TRADES IN THE UTILITY ROOM.
- 5. 1−1/4"CW, 1"HW AND ≩"HWR UP FROM LEVEL BELOW.

FACE o/ STRUCT SHT'G A



FACE 0/ C

-____FACE o/____D



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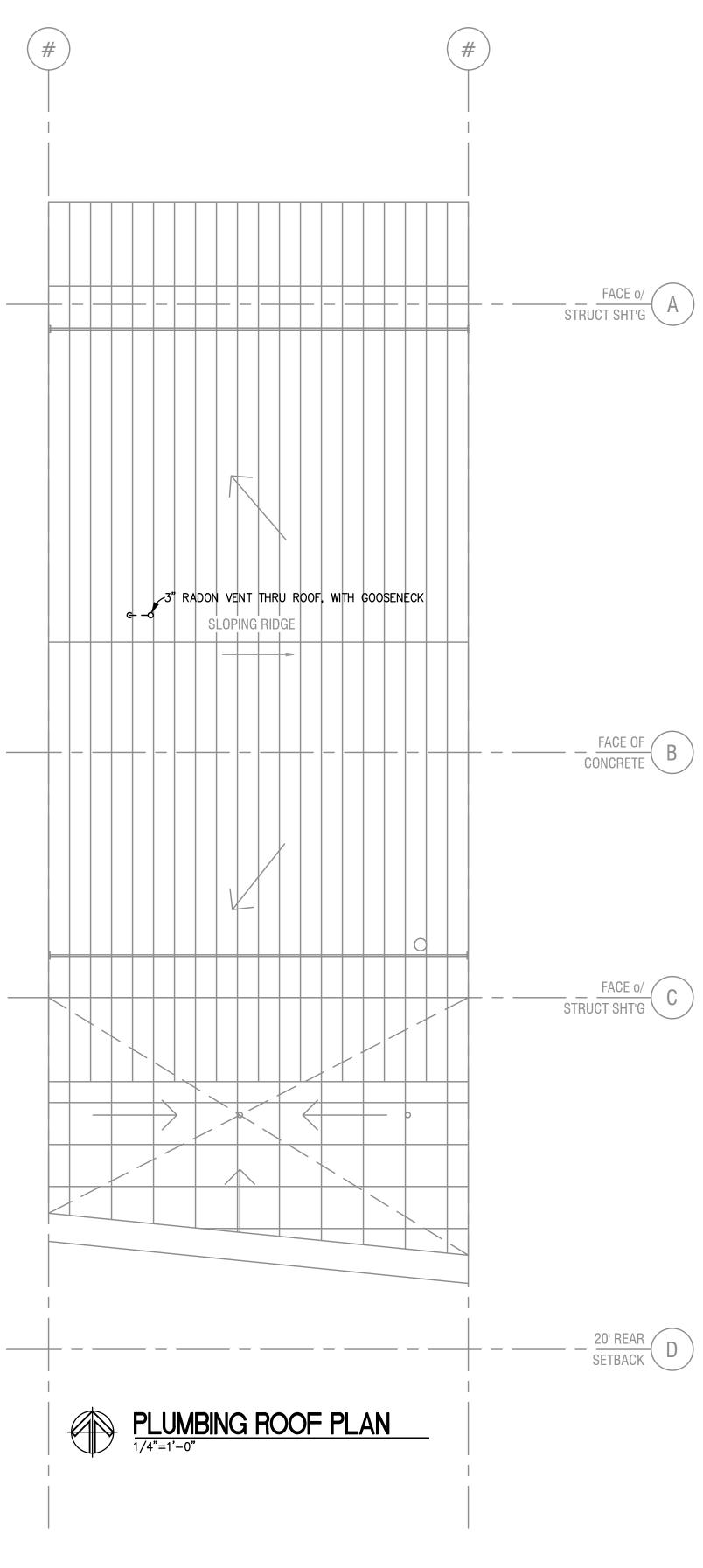


P1.1 TYPICAL UNIT ENTRY AND LOWER LEVEL FLOOR PLANS

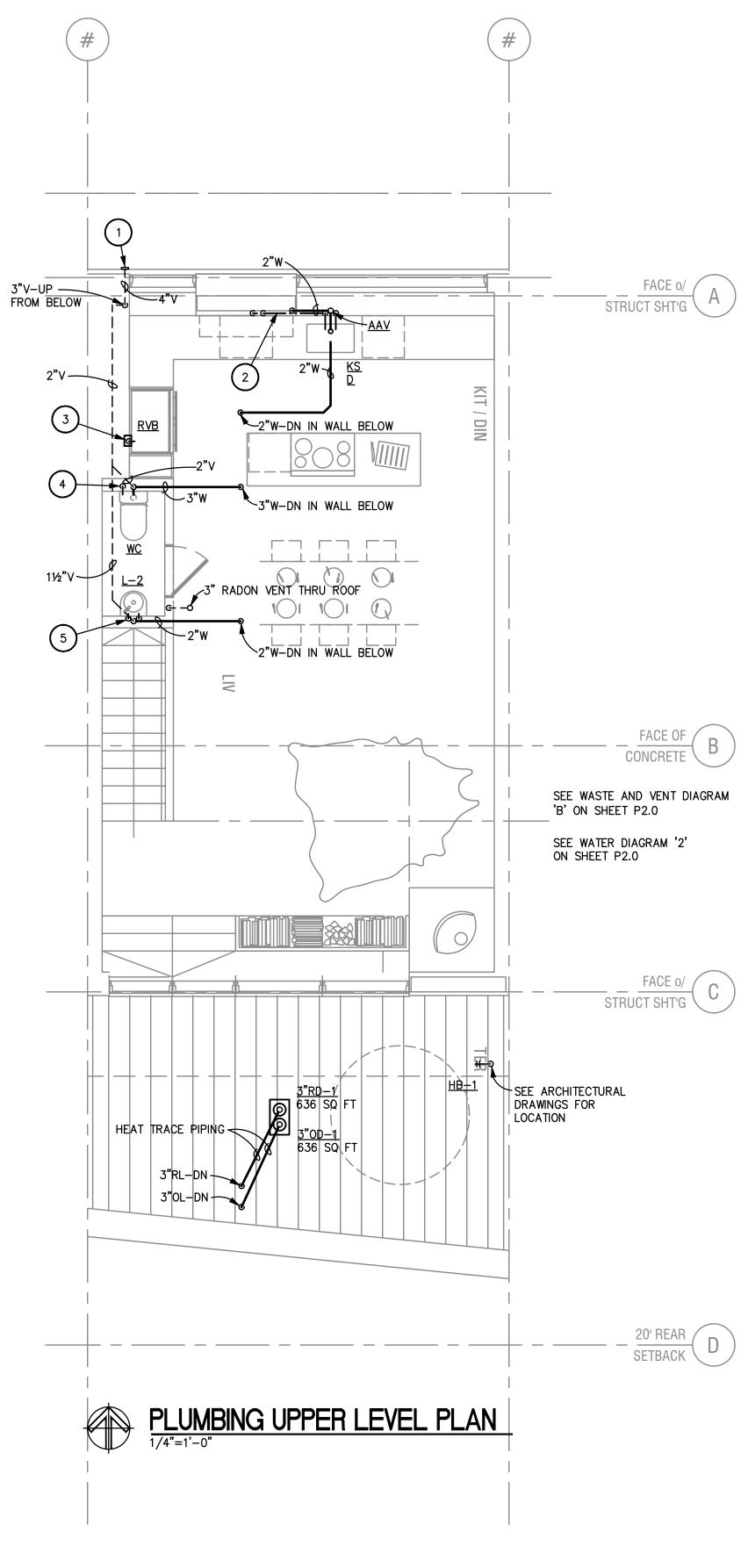
1/4" = 1'-0" scale

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ROOF PLAN

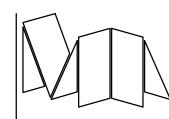


UPPER LEVEL

KEYED NOTES:

1. 4" VENT TERMINATION IN FACE OF BUILDING. COORDINATE LOCATION WITH ALL OTHER TRADES.

- 2. ROUTE ≹"CW AND ≹"HW TO KITCHEN SINK FAUCET AND DISHWASHER.
- 3. $\frac{1}{2}$ CW UP THRU FLOOR, CONNECT TO REFRIGERATOR VALVE BOX.
- 4. ≹"CW UP THRU FLOOR, CONNECT TO WATER CLOSET.
- 5. $\frac{1}{2}$ CW and $\frac{1}{2}$ HW UP THRU FLOOR, CONNECT TO LAVATORY FAUCET.



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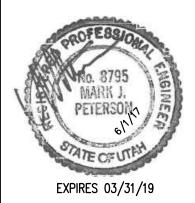
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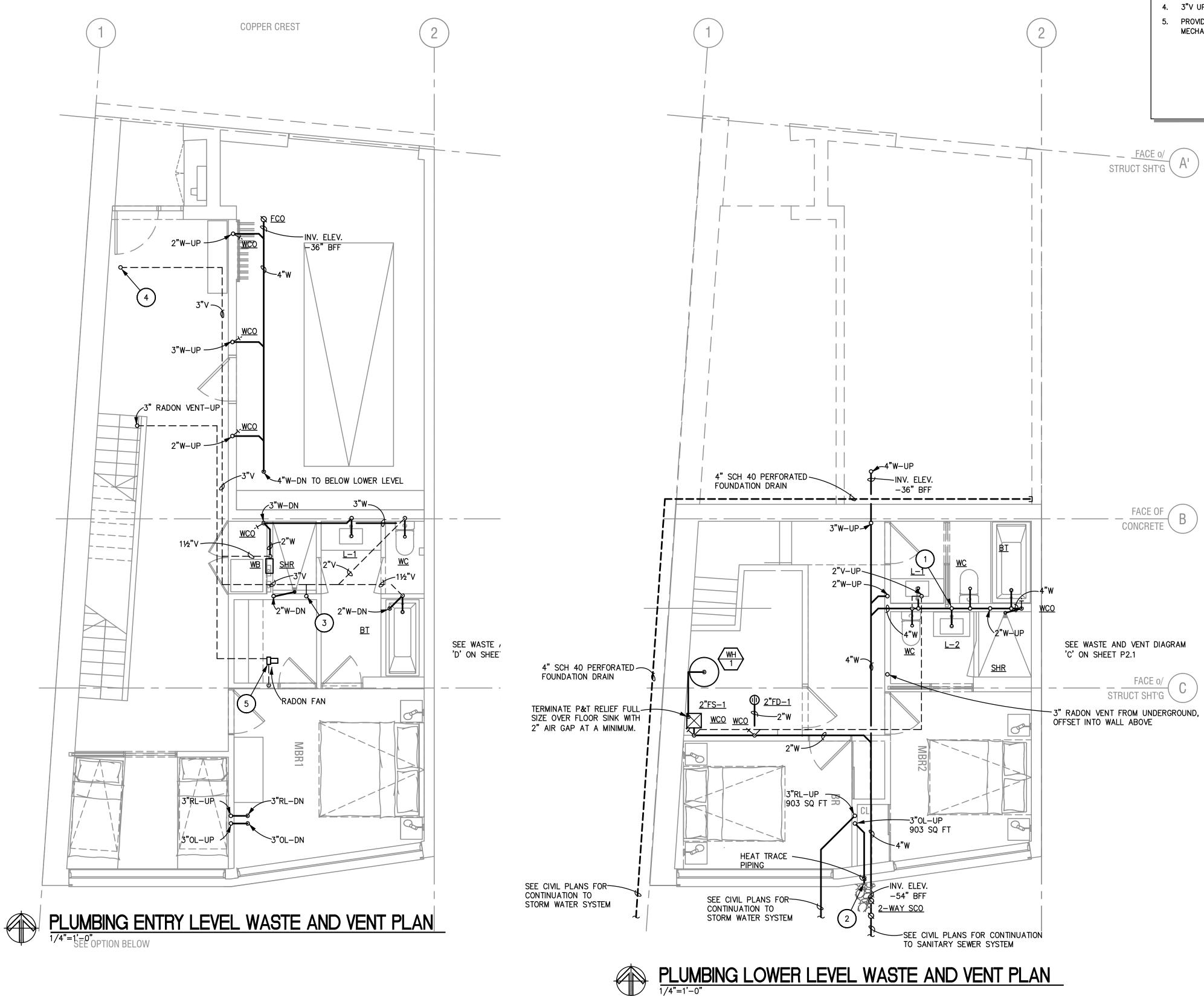




1/4" = 1'-0" scale

PERMIT phase / rev 2017.06.01 date

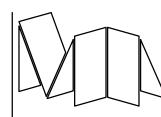




1. COORDINATE P-TRAP UNDER LAVATORY AND WASTE WITH VENT PIPE IN WALL WITH POCKET DOOR CONSTRUCTION.

- 2. PROVIDE 4"-6" SIZE RIPRAP, COLOR TO BE SELECTED BY ARCHITECT, UNDER DOWNSPOUT NOZZLE. EXTEND A MINIMUM OF 18" AWAY FROM BUILDING EDGE.
- 3. 2"V UP FROM FLOOR BELOW. CONNECT INTO 2"V ON THIS FLOOR IN CEILING AREA.
- 4. 3"V UP INTO STRUCTURE ABOVE, OFFSET INTO CORNER OF BUILDING.
- 5. PROVIDE CEILING ACCESS TO RADON FAN, COORDINATE WITH ALL OTHER TRADES. SEE MECHANICAL DRAWINGS FOR FAN AND TESTING REQUIREMENTS.





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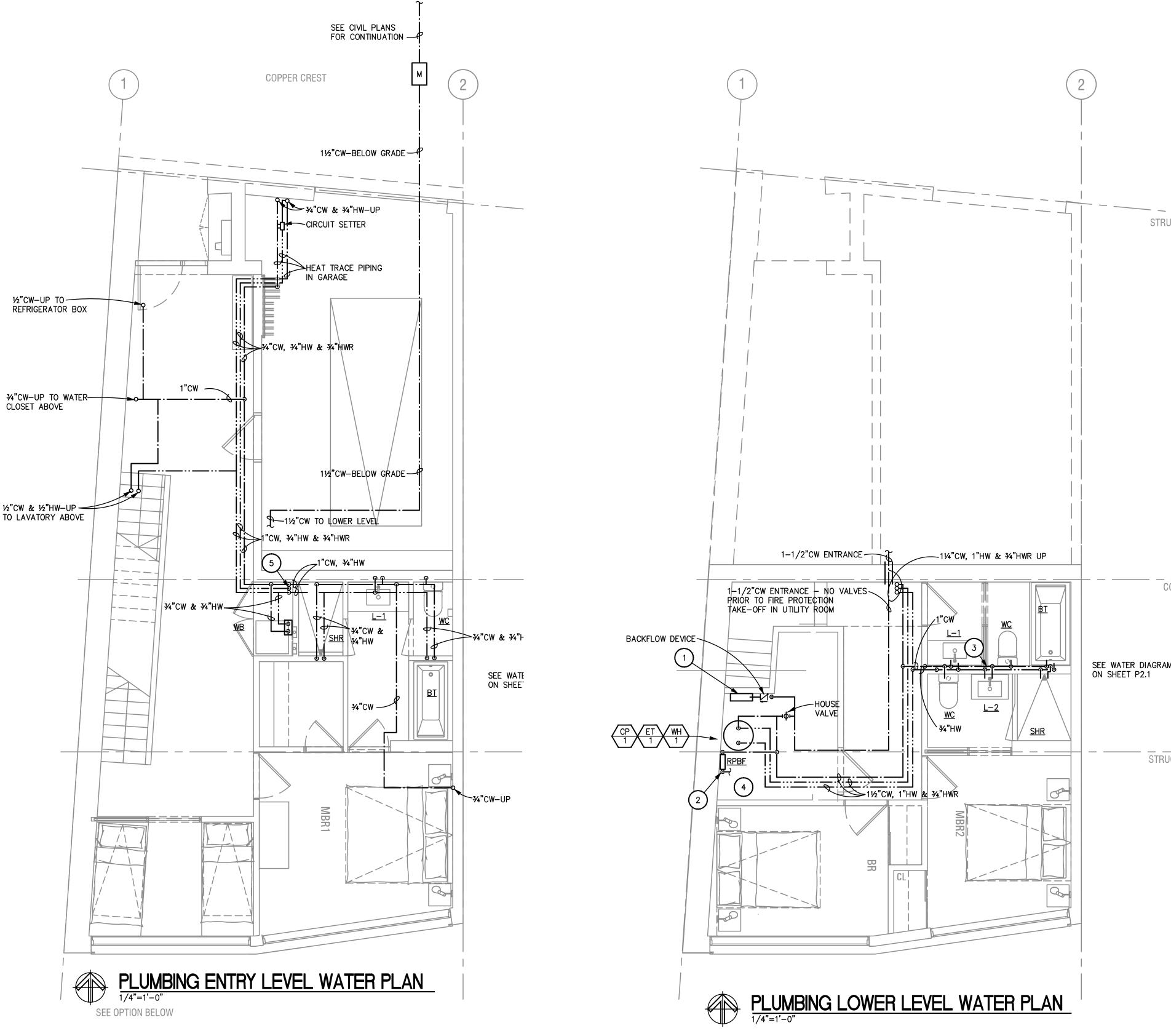


P1.3 LOT 124 ENTRY AND LOWER LEVEL FLOOR PLANS

1/4" = 1'-0" scale

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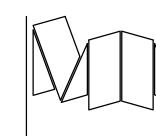
- 1. RESIDENTIAL FIRE RISER MANIFOLD.
- 2. 1"WATER MAKE-UP TO UNDER FLOOR HEATING SYSTEMS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 3. COORDINATE THE PLACEMENT OF THE ANGLE VALVES AND ROUTING OF SUPPLIES TO THE LAVATORY WITH THE POCKET DOOR CONSTRUCTION.
- 4. COORDINATE LOCATION OF PIPES AND ACCESSORIES WITH ALL OTHER TRADES IN THE UTILITY ROOM.
- 5. 1-1/4"CW, 1"HW AND ≩"HWR UP FROM LEVEL BELOW.

_FACE o/ STRUCT SHT'G

> FACE OF CONCRETE

SEE WATER DIAGRAM '3' ON SHEET P2.1

FACE o/ STRUCT SHT'G



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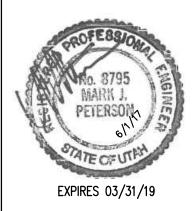
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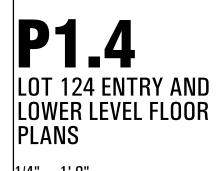
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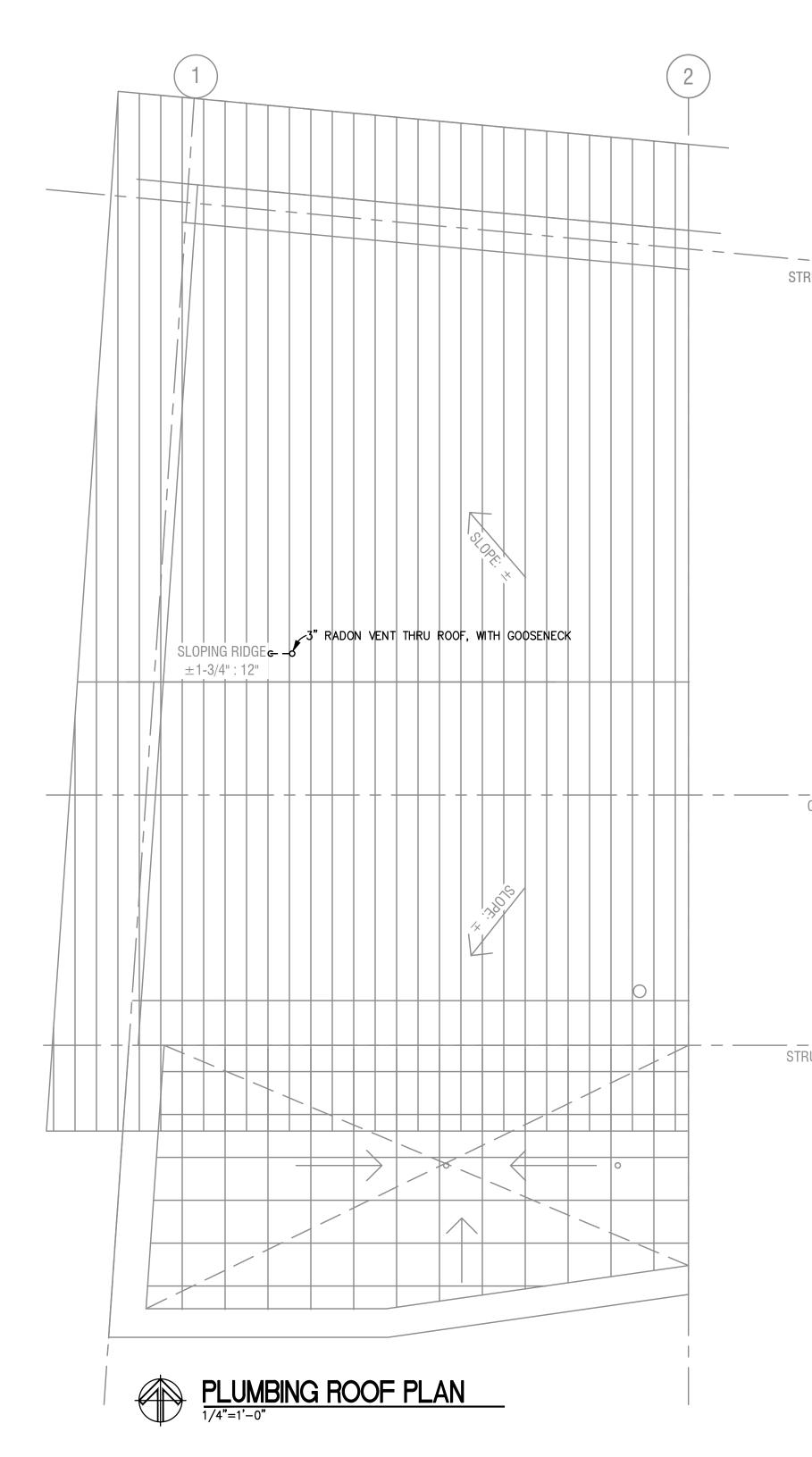


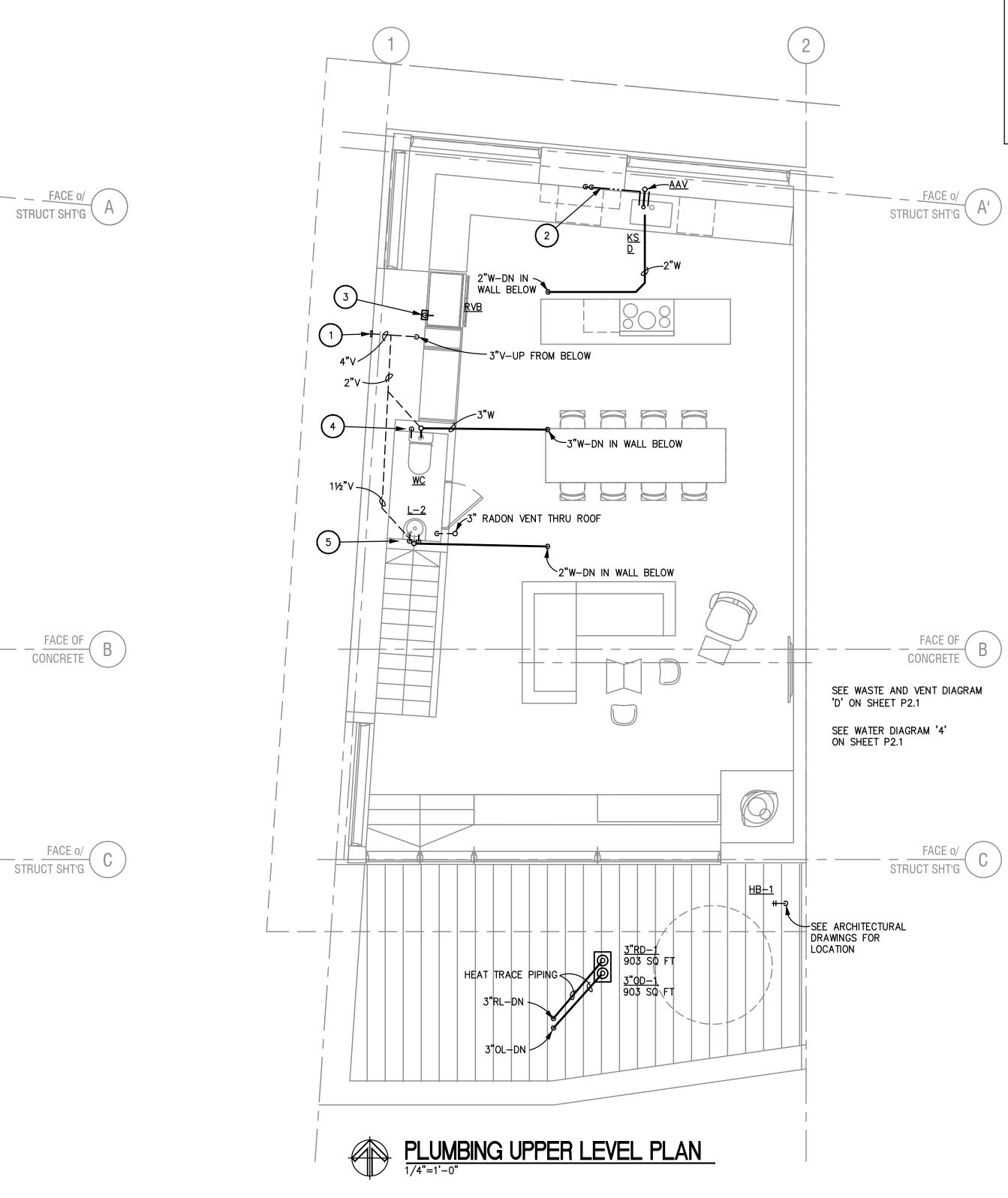


1/4" = 1'-0" scale

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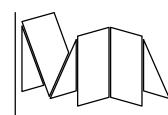






1. 4" VENT TERMINATION IN FACE OF BUILDING. COORDINATE LOCATION WITH ALL OTHER TRADES.

- 2. ROUTE ≩"CW AND ≩"HW TO KITCHEN SINK FAUCET AND DISHWASHER.
- 3. $\frac{1}{2}$ CW UP THRU FLOOR, CONNECT TO REFRIGERATOR VALVE BOX.
- 4. $\frac{3}{4}$ CW UP THRU FLOOR, CONNECT TO WATER CLOSET.
- 5. $\frac{1}{2}$ CW AND $\frac{1}{2}$ HW UP THRU FLOOR, CONNECT TO LAVATORY FAUCET.



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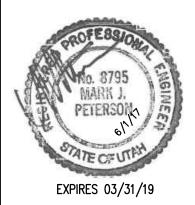
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murray, uT 84107 t (801) 743-1308 STRUCTURAL rudow+berry, inc.

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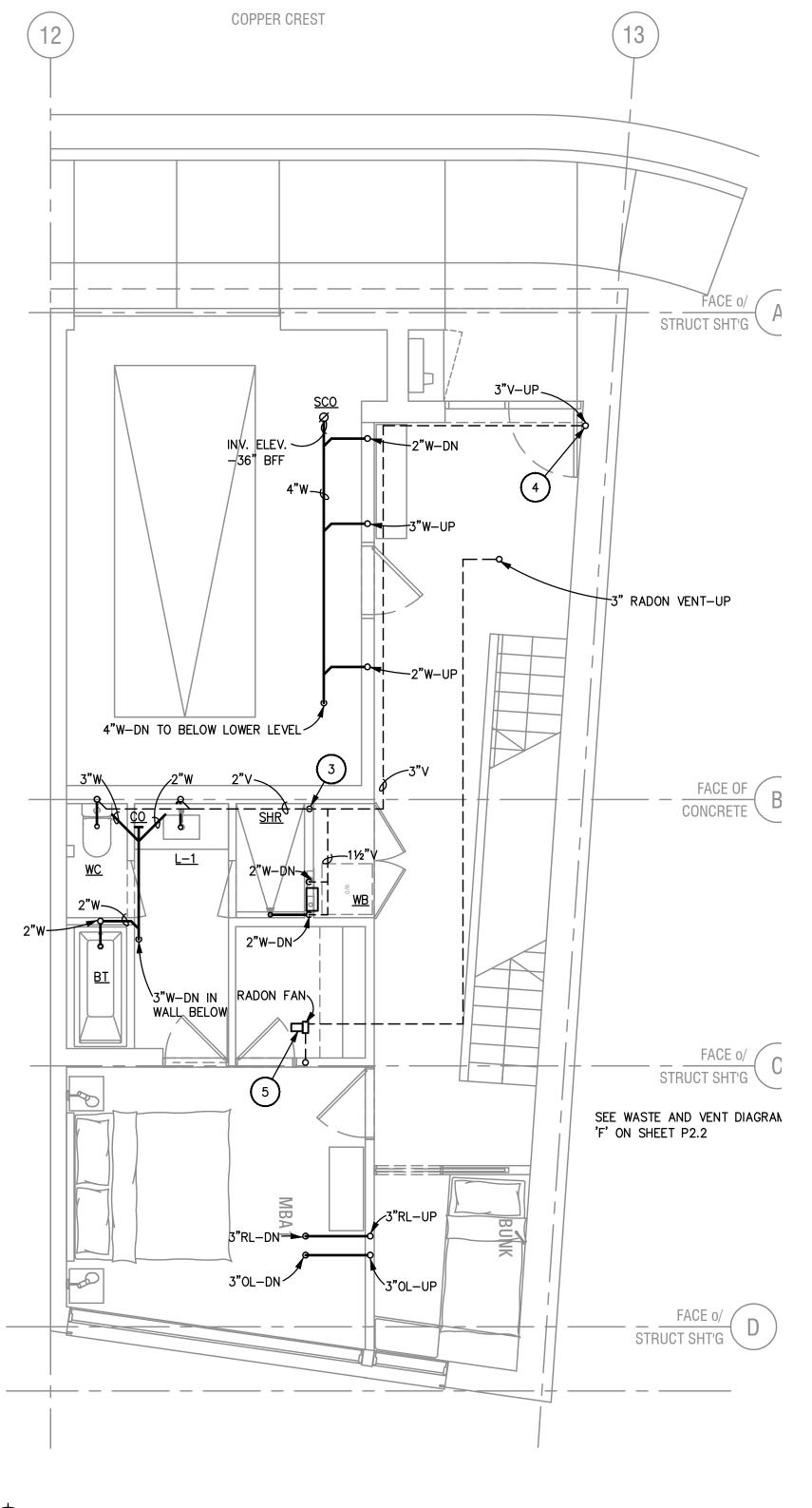


P1.5 LOT 124 UPPER LEVEL AND ROOF PLANS

1/4" = 1'-0" scale

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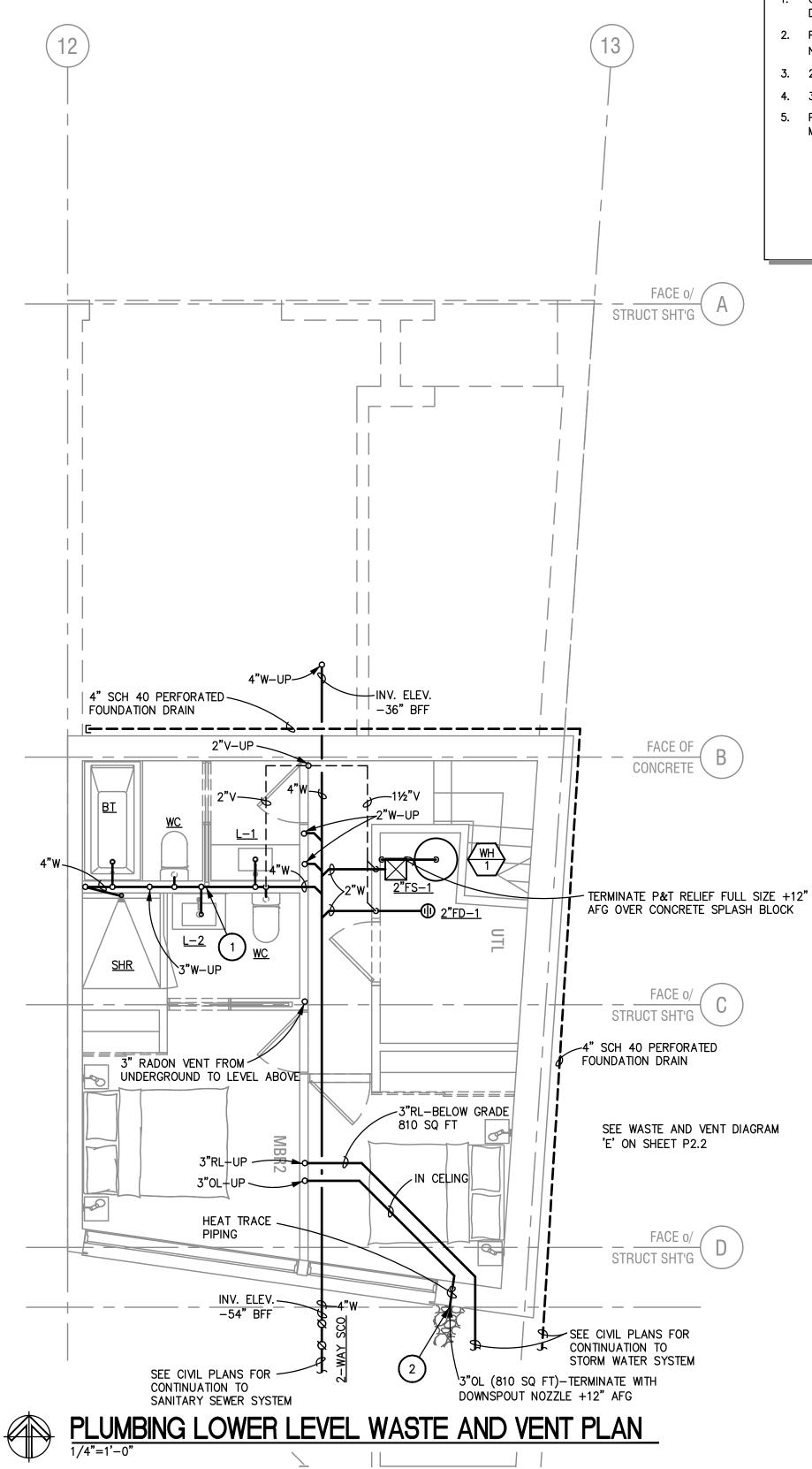






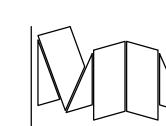
PLUMBING ENTRY LEVEL WASTE AND VENT PLAN





1. COORDINATE P-TRAP UNDER LAVATORY AND WASTE WITH VENT PIPE IN WALL WITH POCKET DOOR CONSTRUCTION.

- 2. PROVIDE 4"-6" SIZE RIPRAP, COLOR TO BE SELECTED BY ARCHITECT, UNDER DOWNSPOUT NOZZLE. EXTEND A MINIMUM OF 18" AWAY FROM BUILDING EDGE.
- 3. 2"V UP FROM FLOOR BELOW. CONNECT INTO 2"V ON THIS FLOOR IN CEILING AREA.
- 4. 3"V UP INTO STRUCTURE ABOVE, OFFSET INTO CORNER OF BUILDING. 5. PROVIDE CEILING ACCESS TO RADON FAN, COORDINATE WITH ALL OTHER TRADES. SEE MECHANICAL DRAWINGS FOR FAN AND TESTING REQUIREMENTS.



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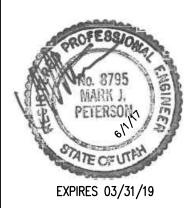
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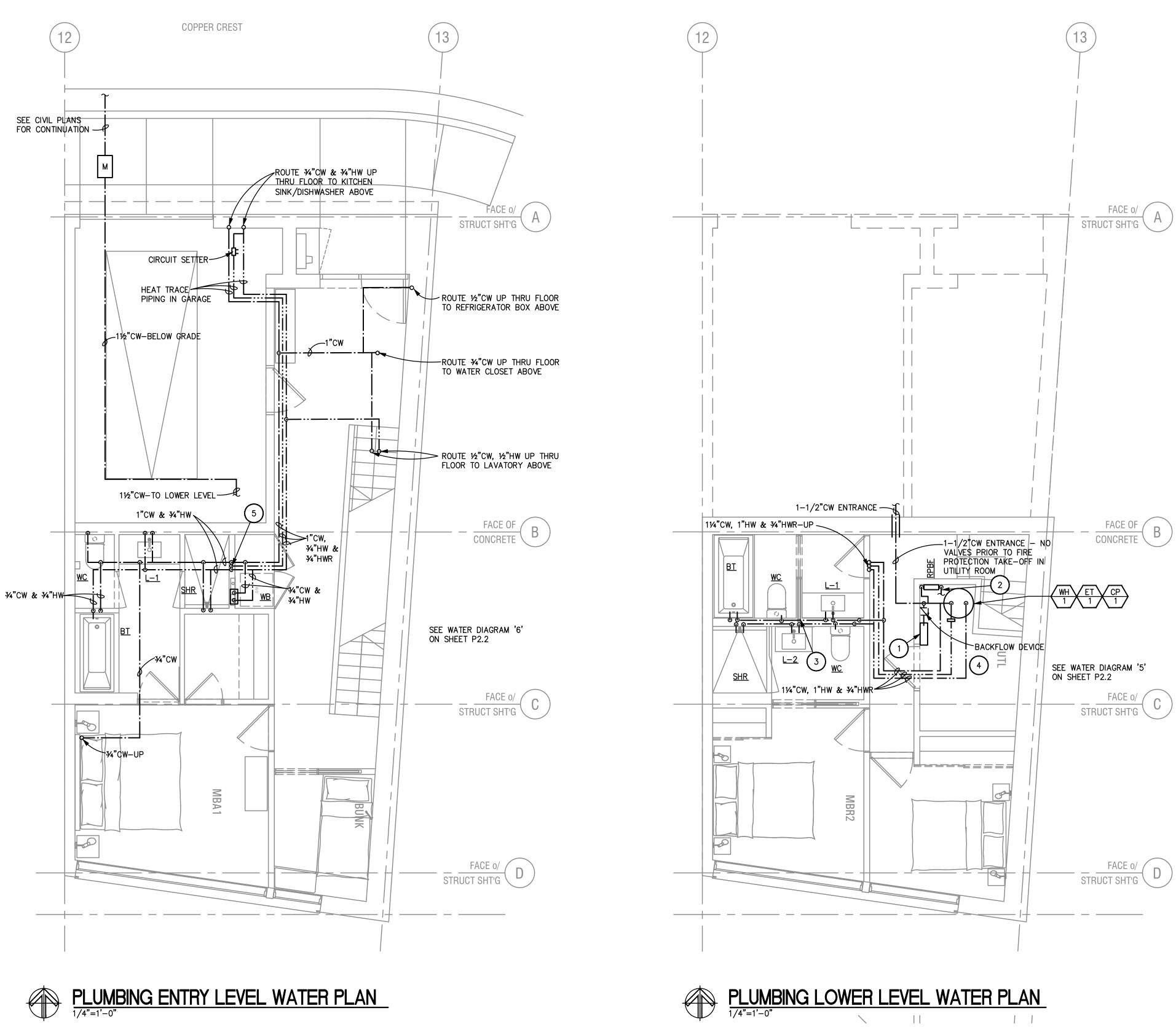


P1.6 LOT 133 ENTRY AND LOWER LEVEL FLOOR PLANS

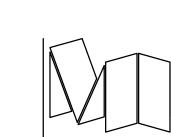
1/4" = 1'-0" scale

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- 1. RESIDENTIAL FIRE RISER MANIFOLD.
- 2. 1"WATER MAKE-UP TO UNDER FLOOR HEATING SYSTEMS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 3. COORDINATE THE PLACEMENT OF THE ANGLE VALVES AND ROUTING OF SUPPLIES TO THE LAVATORY WITH THE POCKET DOOR CONSTRUCTION.
- 4. COORDINATE LOCATION OF PIPES AND ACCESSORIES WITH ALL OTHER TRADES IN THE UTILITY ROOM.
- 5. 1-1/4 CW, 1 HW AND $\frac{3}{4}$ HWR UP FROM LEVEL BELOW.



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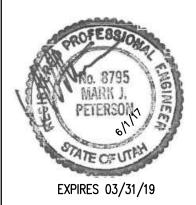
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P1.7 LOT 133 ENTRY AND LOWER LEVEL FLOOR PLANS

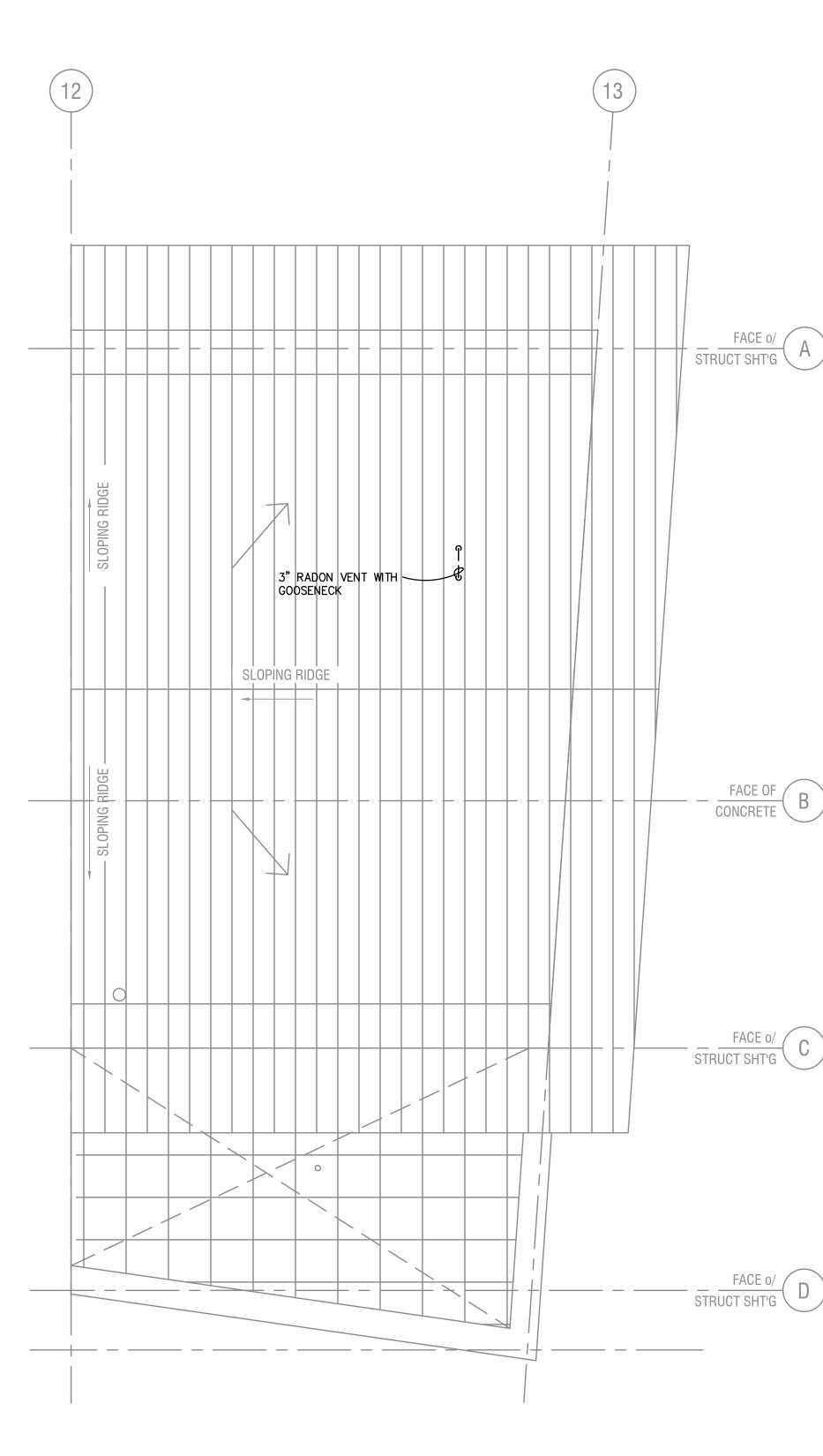
1/4" = 1'-0" scale

PERMIT phase / rev **2017.06.01** date



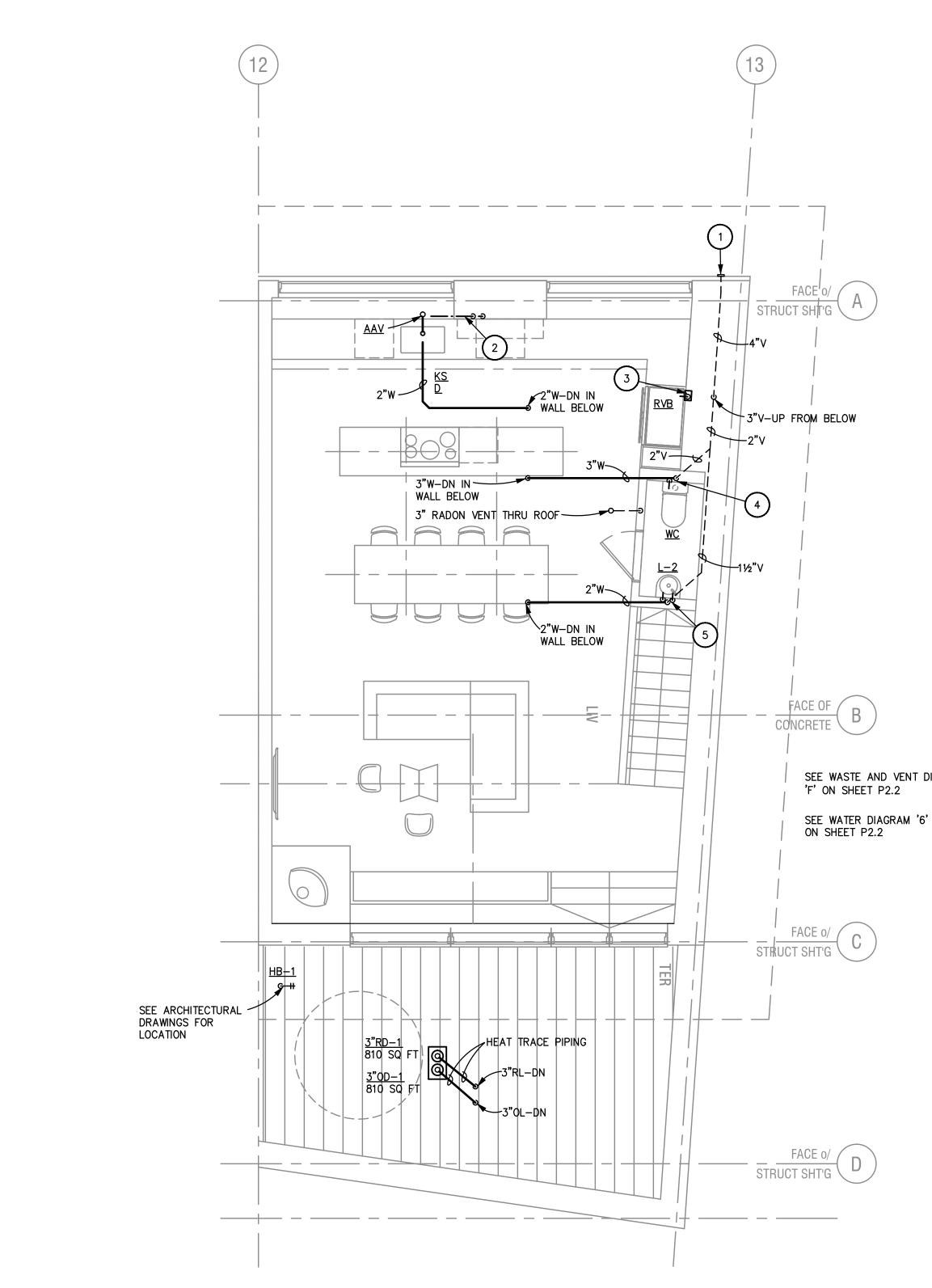


PLUMBING ROOF PLAN





PLUMBING UPPER LEVEL PLAN



KEYED NOTES:

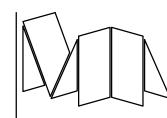
1. 4" VENT TERMINATION IN FACE OF BUILDING. COORDINATE LOCATION WITH ALL OTHER TRADES.

- 2. ROUTE ≩"CW AND ≩"HW TO KITCHEN SINK FAUCET AND DISHWASHER.
- 3. $\frac{1}{2}$ CW UP THRU FLOOR, CONNECT TO REFRIGERATOR VALVE BOX.
- 4. $\frac{3}{4}$ CW UP THRU FLOOR, CONNECT TO WATER CLOSET. 5. $\frac{1}{2}$ CW AND $\frac{1}{2}$ HW UP THRU FLOOR, CONNECT TO LAVATORY FAUCET.

SEE WASTE AND VENT DIAGRAM

7201 N. Dreamy Draw Drive Suite 200 Phoenix, Arizona 85020 (602) 943.4116 Facsimile (602) 943.2507 www.mpeconsult.com Job No. 175170 PETERSON ASSOCIATES CONSULTING ENGINEERS INC.

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sma project no. 16-101

sma project name POWDERCAT

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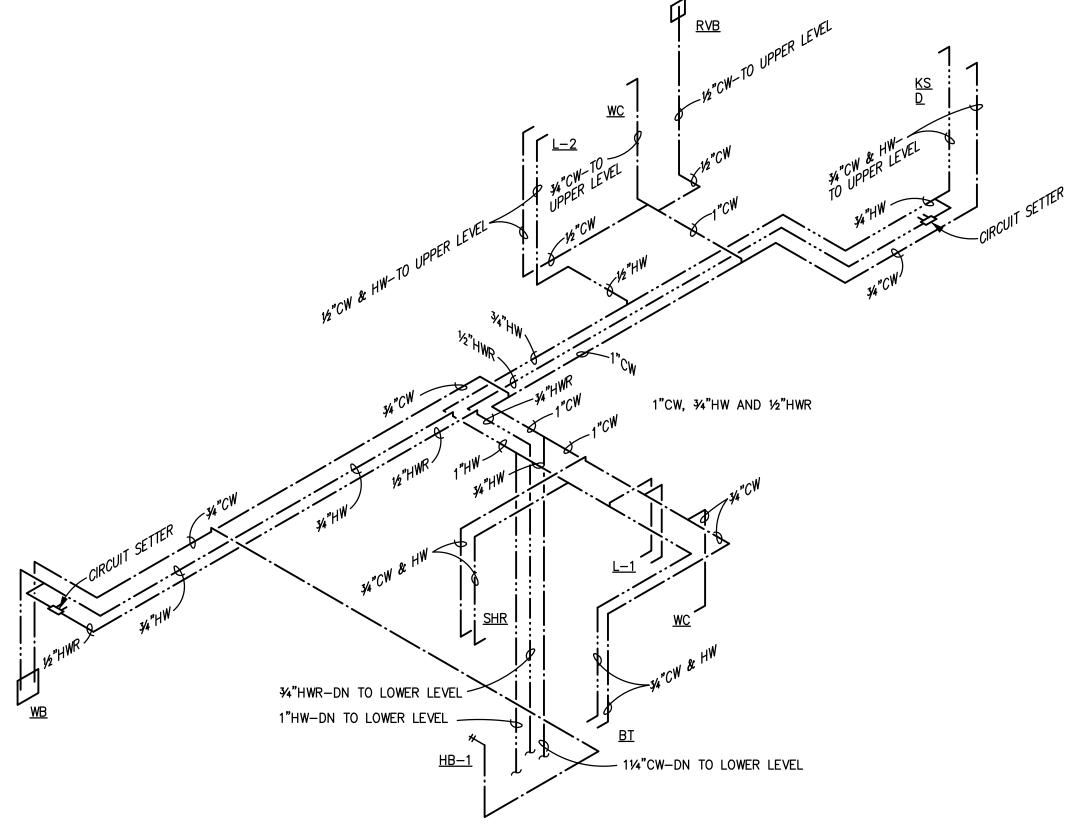
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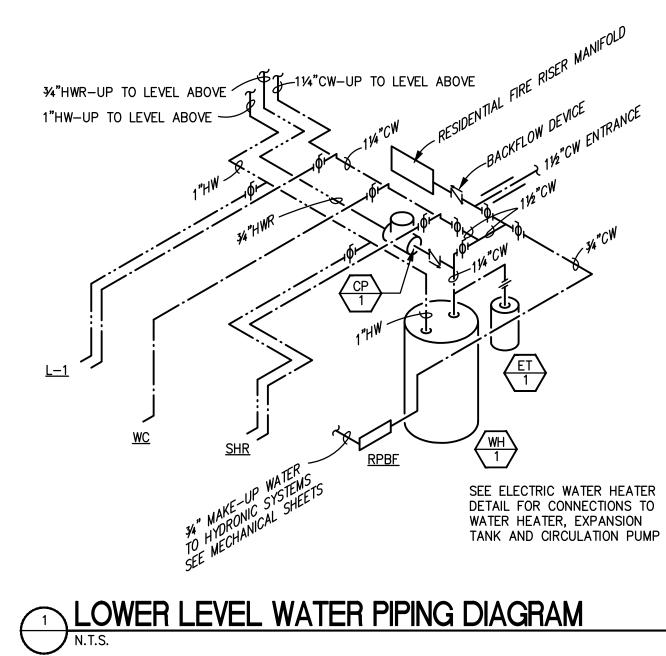


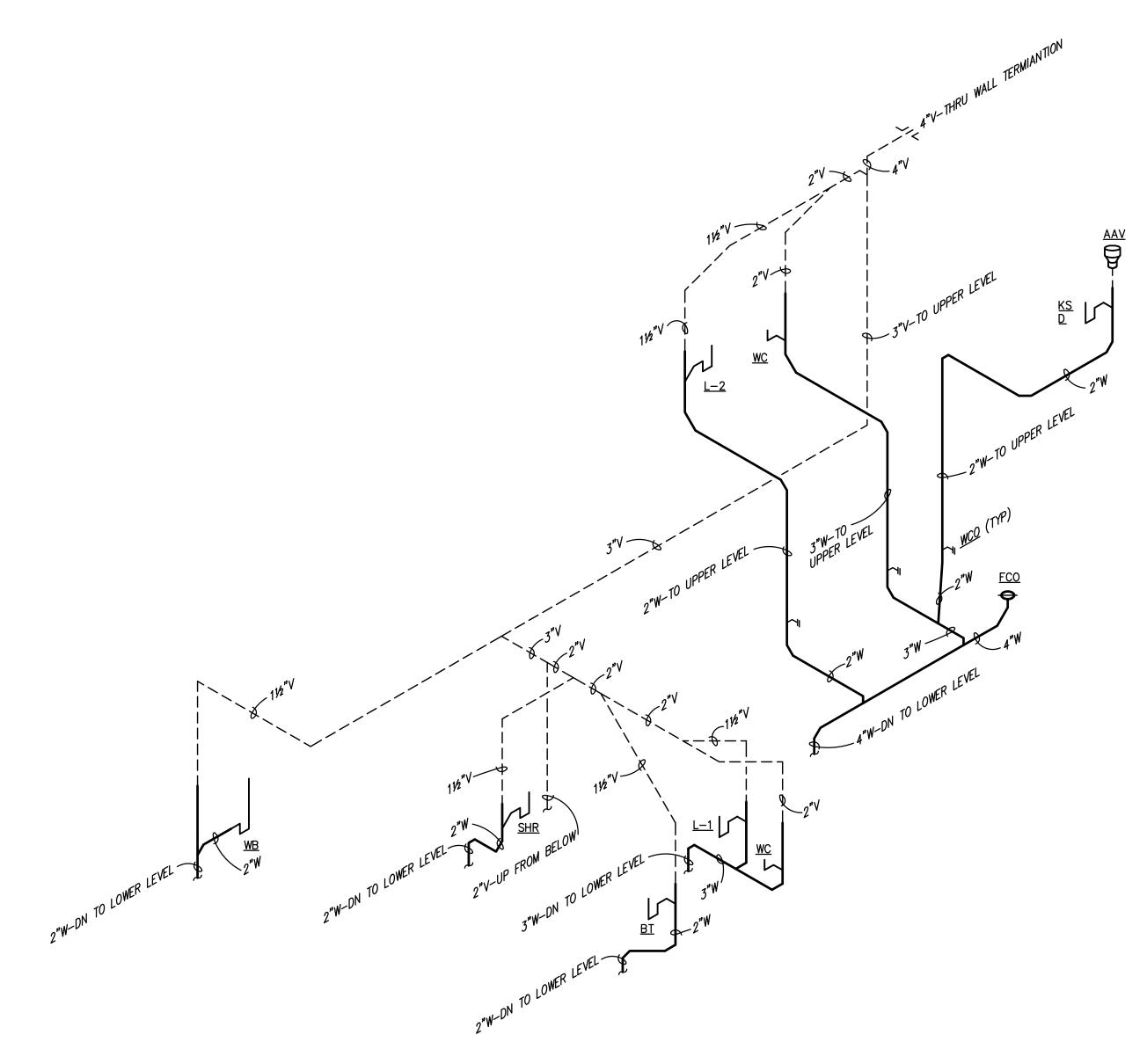


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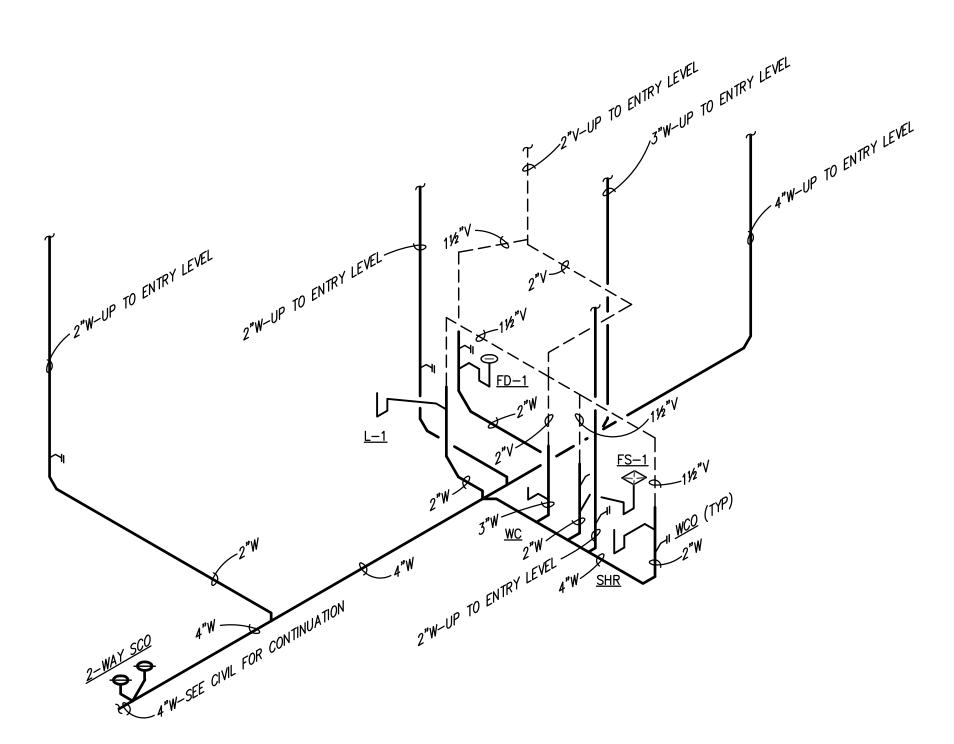


² ENTRY AND UPPER LEVEL WATER PIPING DIAGRAM N.T.S.





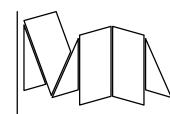
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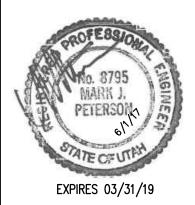
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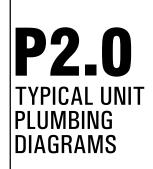
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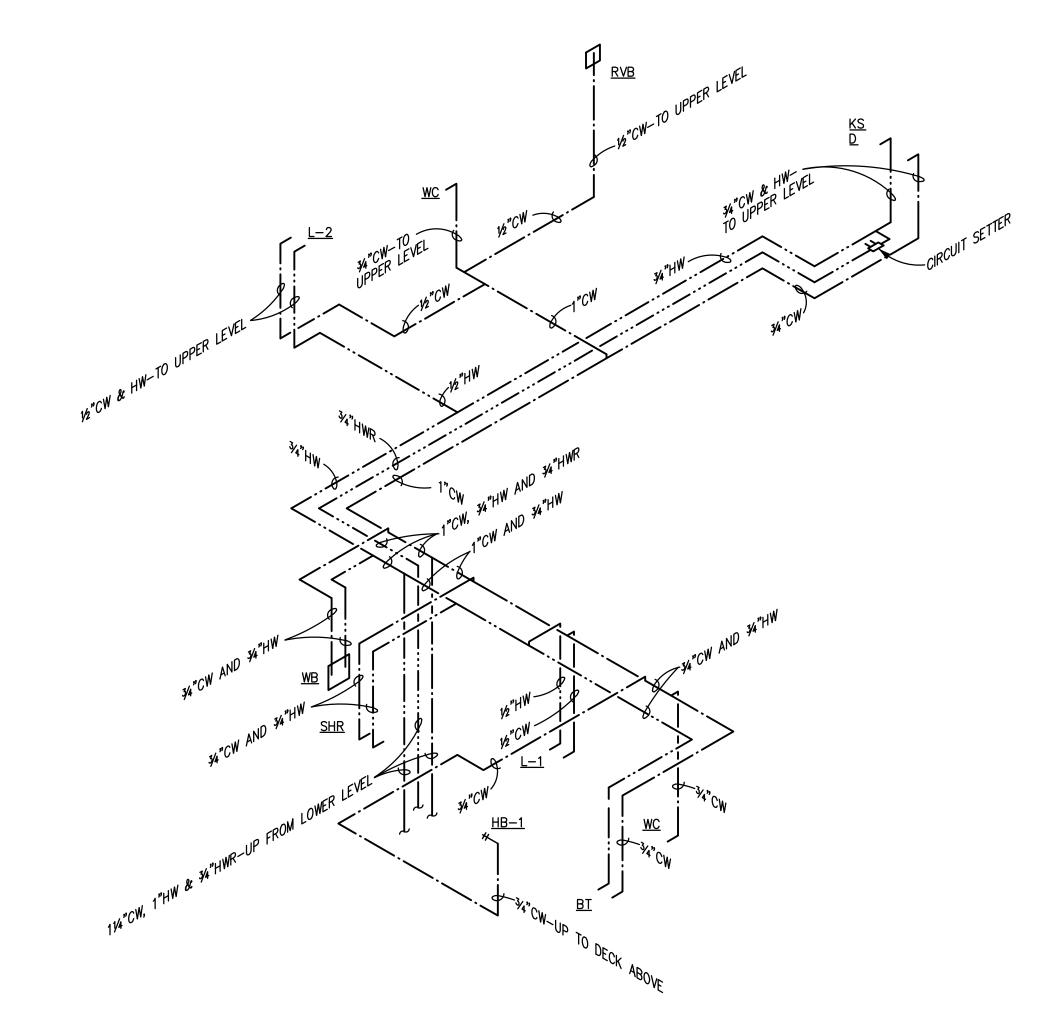
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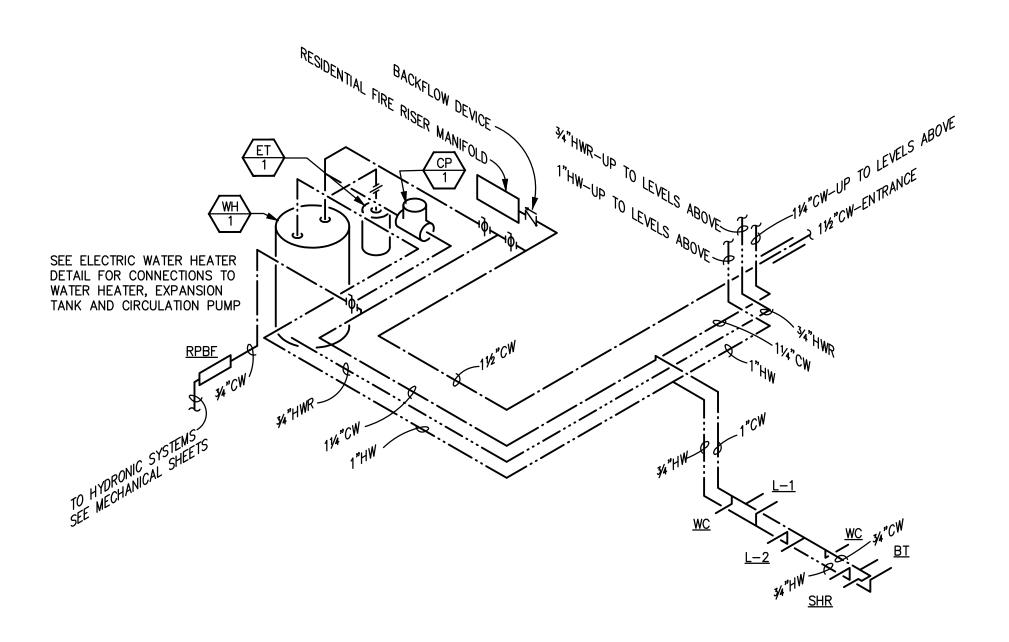




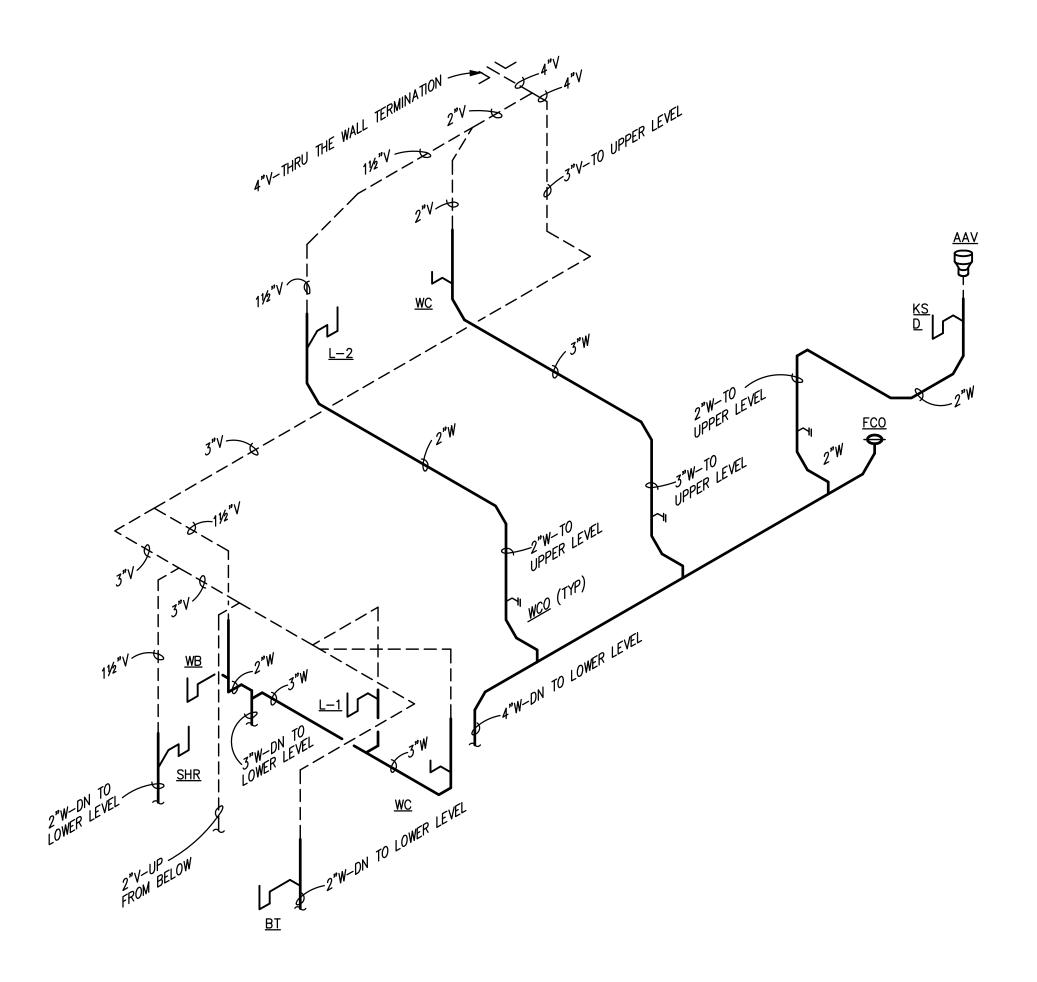
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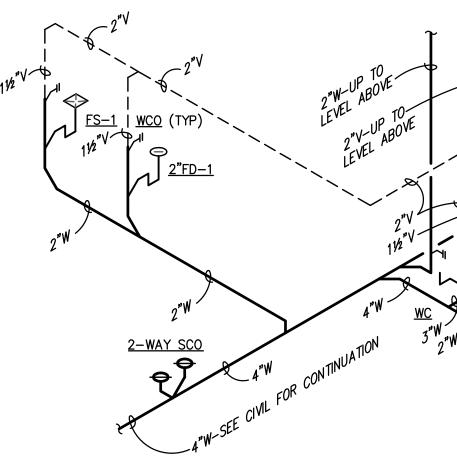




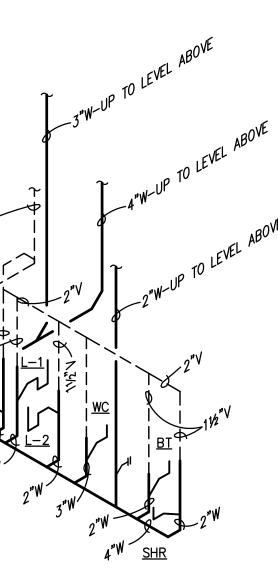




C LOWER LEVEL WASTE AND VENT DIAGRAM

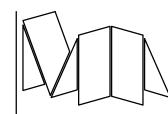


D ENTRY AND UPPER LEVEL WASTE AND VENT DIAGRAM





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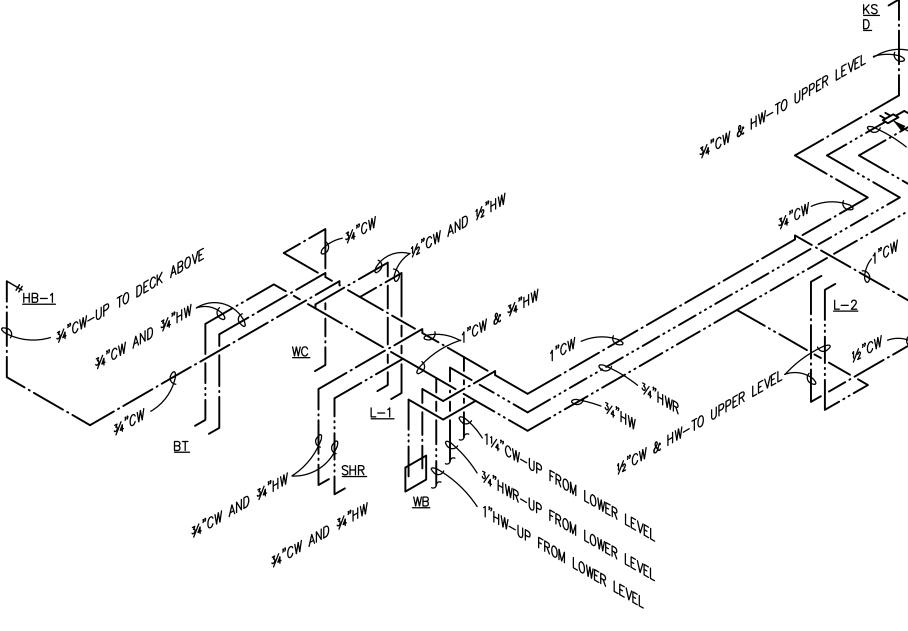
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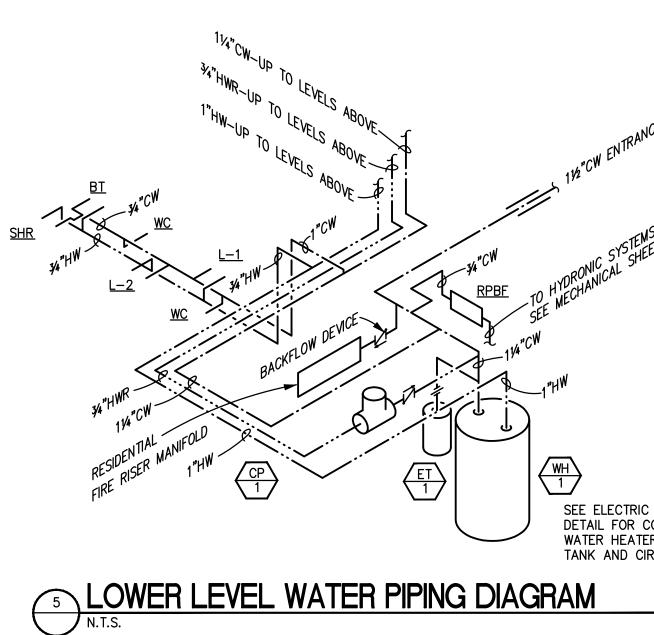


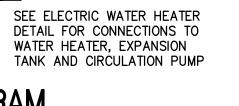


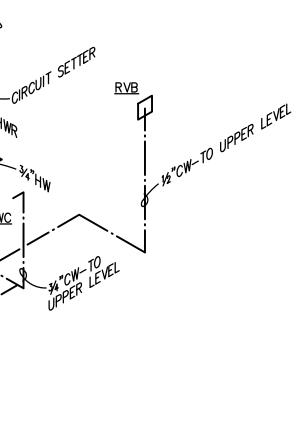
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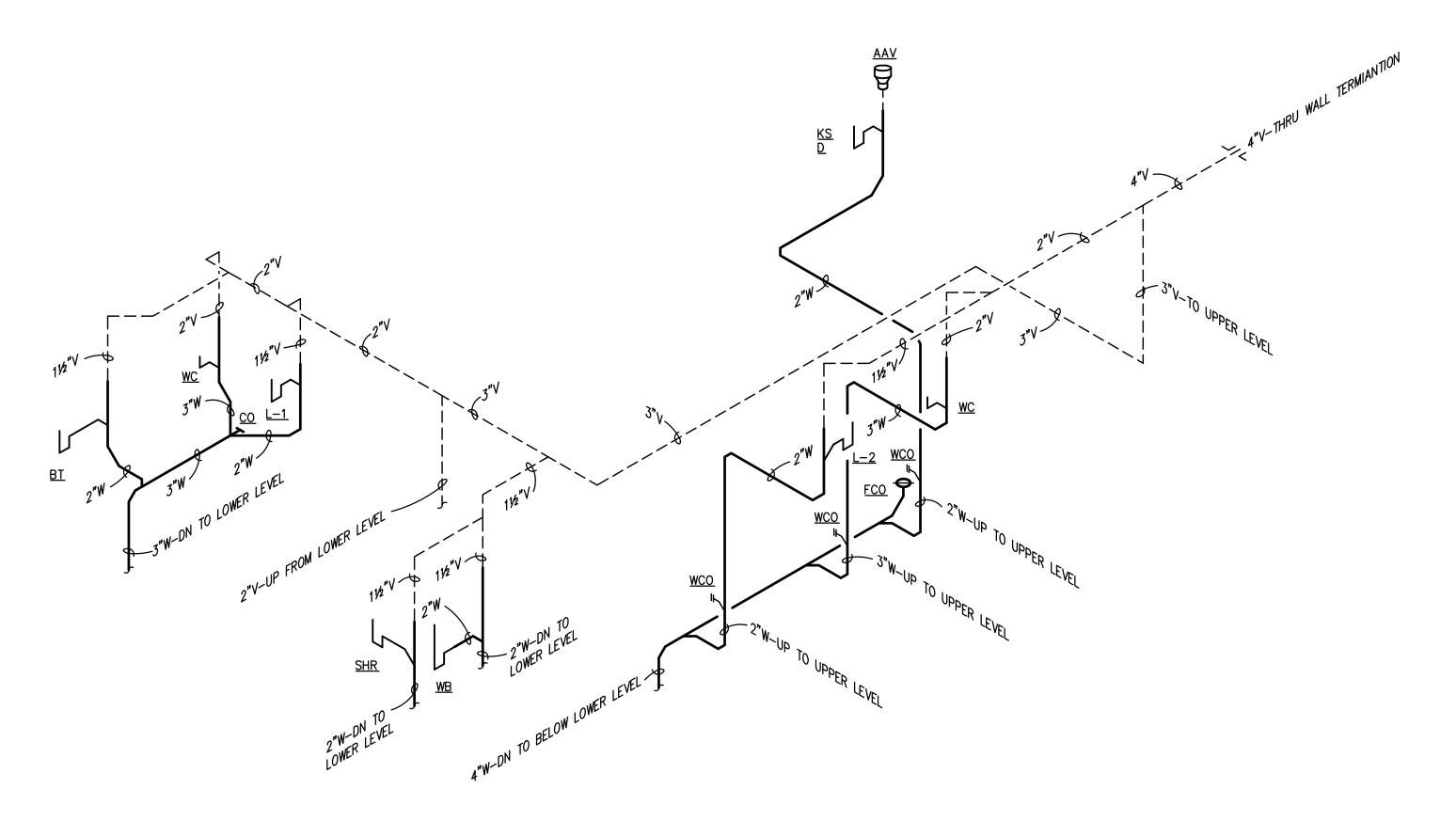




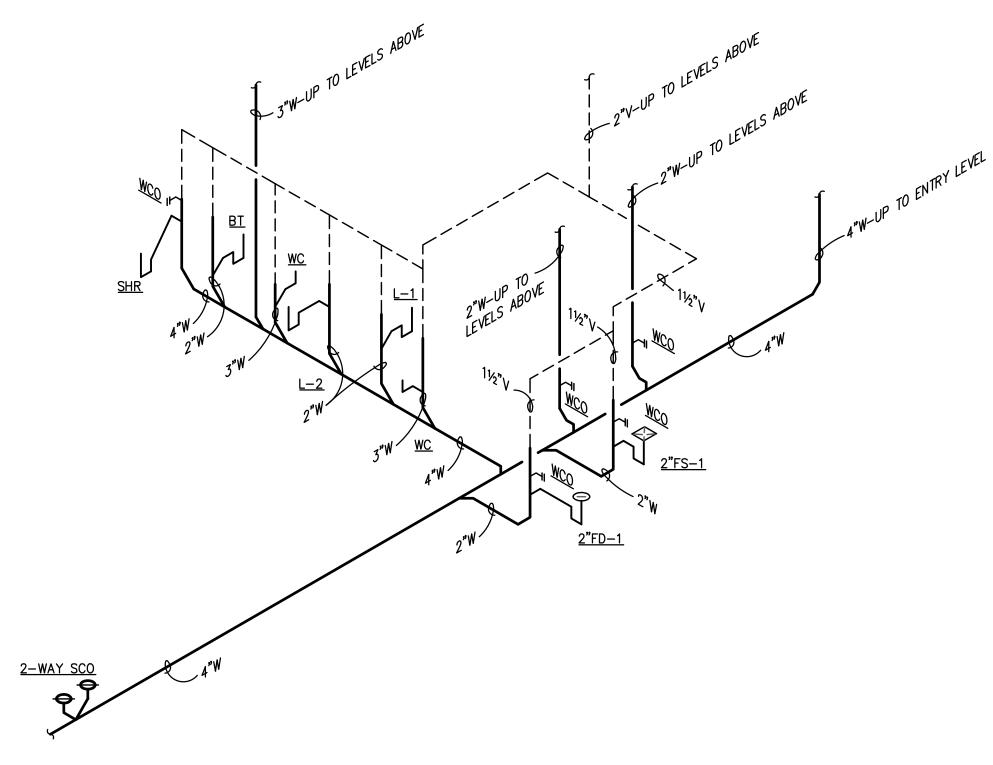




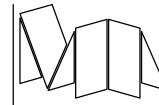




F ENTRY AND UPPER LEVEL WASTE AND VENT DIAGRAM



E LOWER LEVEL WASTE AND VENT DIAGRAM





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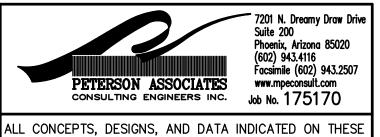




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| HVAC EQUIPMENT SCHEDULE | | | | | | | | | |
|-------------------------|-----------------------|-------|-----|-----|------|---------|-------------------------|-------------------------|----------------------------------|
| INIT NUMBER | EQUIPMENT DESCRIPTION | HP | KVA | ĸw | AMPS | VOLTS/Ø | (See Note 1) DISC SW | (See Note 2) STARTER | (See Note 3) BRANCH CIRCUIT** |
| B | HOT WATER BOILER | _ | _ | 10 | _ | 240/1 | 60/2 | - | (2)#6 CU, (1)#10 CU. GND. |
| B B B 2 4 3 | HOT WATER BOILER | | _ | 15 | _ | 240/1 | 100/2 | - | (2)#2 CU, (1)#8 CU. GND. |
| | | | | | | | | | |
| | MAKE UP AIR UNIT | FRAC. | _ | 5 | _ | 240/1 | 30/2 | - | (2)#10 CU, (1)#10 CU. GND. |
| | ELECTRIC WATER HEATER | _ | _ | 5.5 | _ | 240/1 | 30/2 | - | (2)#10 CU, (1)#10 CU. GND. |

<u>NOTES</u>

1. NEMA 3R WHERE OUTSIDE. PROVIDE FUSING PER HVAC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. 2. ALL MOTOR STARTERS LOCATED OUTDOORS SHALL BE PROVIDED WITH TEMPERATURE COMPENSATED

ELECTRONIC OVERLOADS IN LIEU OF BIMETALLIC OVERLOAD ELEMENTS.

3. ALL CONDUCTORS FEEDING HVAC EQUIPMENT SHALL BE COPPER WITH INSULATION RATED FOR 90 DEGREES C.

4. WIRE SIZE INDICATED BASED UPON TABLE 310.15(B)(16) NOT DE-RATED. ALL CONDUCTORS SERVING OUTDOOR EQUIPMENT AND/OR ROUTED OUTDOORS, SHALL BE DE-RATED FOR 117 - 122'F (NEC TABLE 310.15(B)(2)(A). IN ADDITION, CONDUCTORS ON ROOF SHALL BE FURTHER DE-RATED PER NEC TABLE 310.15(B)(3)(C).

| | ELECTRICAL SYMBOLS (RESIDENTIAL) |
|----------------|---|
| ₽ | DUPLEX CONVENIENCE OUTLET MOUNTED AT +15" TO BOTTOM OR AS NOTED 'WP' DENOTES IN-USE WEATHERPROOF COVER. |
| ⊕ | DOUBLE DUPLEX (FOURPLEX) RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED. |
| ₽ | DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER. MOUNTING HEIGHT AS NOTED. |
| € | 50 AMP RECEPTACLE. RECESS MOUNTED. 120/240V, 4W |
| ₽ | HALF SWITCHED DUPLEX RECEPTACLE AT +15" TO BOTTOM OR AS NOTED. |
| ⊖ : USB | DUPLEX USB PORT |
| Фн | DUPLEX MOUNTED HORIZONTALLY |
| Ð | FLUSH FLOOR DUPLEX CONVENIENCE OUTLET - LEW ELECTRIC 812-DFB. |
| C | CHIME |
| S | SMOKE DETECTOR - SINGLE STATION 120V. WITH BATTERY, INTERCONNECTED. |
| Ø | CARBON MONOXIDE DETECTOR - SINGLE STATION 120V. WITH BATTERY, INTERCONNECTED. |
| Ø | CEILING MOUNTED OCCUPANCY SENSOR. |
| Ψ | TV OUTLET 52" A.F.F. OR AS NOTED. |
| 4 | TELE/DATA OUTLET |
| | FLUSH FLOOR TELE/DATA OUTLET |
| Q | J–BOX FLUSH MOUNTED FOR CEILING FAN. J–BOX SHALL BE U.L. LISTED FOR CEILING FAN APPLICATION AND SHALL BE INSTALLED PER N.E.C. 370–23, 370–27(c) AND 422–18. |
| | PANELBOARD – MOUNT AT +6'-6" TO TOP OR AS NOTED. |
| ¢ | MOTOR – SIZE AS INDICATED ON DRAWINGS. |
| P | DISCONNECT SWITCH — SIZE AND FUSES AS PER MANUFACTURER'S RECOMMENDATIONS (WEATHERPROOF WHERE OUTSIDE). |
| \$ | SINGLE POLE SWITCH MOUNTED AT +48" OR AS NOTED. SEE GENERAL NOTE #8 THIS SHEET. |
| \$ D | DIMMER SWITCH RATED FOR LOAD. |
| \$ 3 | 3-WAY SWITCH AT +48" OR AS NOTED. |
| EF | EXHAUST FAN - 150 WATT, 120V. UNLESS NOTED OTHERWISE. |
| GCFI | GROUND FAULT CIRCUIT INTERRUPTER (REFER TO GENERAL RESIDENTIAL NOTES). |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER (REFER TO GENERAL RESIDENTIAL NOTES). |
| | |
| | 4'-0" SURFACE MOUNTED LIGHTING FIXTURE |
| | 2'-0" SURFACE MOUNTED LIGHTING FIXTURE |
| | O RECESSED WALL WASHER |
| | X RECESSED SHOWER LIGHT |
| | ₩ALL SCONCE |

NOTES:

- ALL INTERIOR UNIT LIGHTING SHALL BE ON WALL DIMMERS, UNLESS CONTROLLED BY OCCUPANCY SENSOR OR JAMB SWITCHES.
- 2. 'LUTRON' DECORA STYLE PLATES & SWITCHES & DEVICES, WHITE PLASTIC - MATTE, NOT GLOSSY FINISH.

ELECTRICAL SPECIFICATIONS (RESIDENTIAL)

PART 1 GENERAL

1.1 SCOPE OF WORK

- A. Provide trenching and backfill in accordance with power and telephone company reauirements.
- B. Verify with power and telephone companies the location of equipment, trench and conduit routing, termination locations, method of termination, pad size and other reauired information. Obtain drawing, specifications and instructions for all work.
- C. Pay utility company charges, including design and customer contribution charges. D. All materials shall be new, in good conditions and the product of an established and recognized manufacturer.
- E. All trade work shall be by skilled mechanics in accordance with best trade practice and shall include all item of fabrication, instruction or installation as regularly furnished or required for installation. When completed, all work shall be functional, durably built and installed and shall present a neat workmanlike appearance. F. Comply with the latest edition of the national electric code, state or city electric codes
- and the requirements of the telephone and power companies. Where conflicts occur, the more stringent requirement or the code enforced by the authority having jurisdiction shall apply. G. Plan and install work so as to conform to structure, avoid obstructions, preserve
- headroom and keep openings and passageways clear. Consult architect immediately if conflicts occur.
- H. Protect material during storage and handling and subsequent to installation from damage. I. Provide temporary power and distribution for installation and testing operations. J. In general, the work shall consist of, but is not limited to, the following: 1. Panels, conduit, wiring, devices, etc., For all outlets and equipment.
- 2. Electrical service as indicated on the drawings. 3. Lighting fixtures with lamps: refer to fixture schedule. 4. Excavation and backfill.
- 1.2 QUALITY
- A. Codes and Standards: All work in this section will comply with the regulations of the State, County and their serving Power Company. All materials used shall have a UL label when normally available. National Electrical Code applies. B. Drawings: The drawings are generally diagrammatic. Coordinate the work so each
- piece of equipment will be installed as to function properly. PART 2 PRODUCTS

- 2.1 BUILDING SERVICE A. Indicated on the drawings. Power Company charges included in base bid. Verify routing with the Power Company.
- 2.2 SERVICE ENTRANCE EQUIPMENT
- A. As indicated on the drawings, conforming to the requirements of the power company, national and local electrical codes. Shop drawings shall be submitted to the Owner and the Power Company for approval. 2.3 PANELBOARD
- A. Building Branch Panels Shall Be Load Center Type; Circuit Breaker Shall Be Of The Quick-Make, Quick-Break, Thermal Magnetic Trip Ambient Compensated Interchangeable Type. Provide Panels With Doors. Tie Bars To Form Two Pole Breaker Sand Tandem Breakers Will Not Be Accepted. Panels Shall Be Type Indicated On The Drawings.
- 2.4 RACEWAYS
- A. Electrical Metallic Tubing: Used as permitted by codes. B. Galvanized Steel: Used as permitted by code and protected from corrosion.
- C. Liquidtight Flex Conduit: Used for outdoor motor and equipment connections shall be
- sunlight resistant listed. D. Non Metallic Conduit: UL labeled, Schedule 40 "PVC" conduit may be used for underground feeders and branch circuits where under slabs or protected by a 3 inch concrete envelope. Rigid steel sweep elbows shall be used for all bends on conduit
- sizes larger than one inch. 2.5 WIRE
- A. Conductors: Annealed copper wire. Wire No. 8 and larger shall be stranded. B. Insulation: Type THWN/THHN.
- C. Sizes: No wire smaller than No. 12 shall be installed, unless noted otherwise or per manufacturer's recommendations.
- D. Non-metallic sheathed cable (NM Cable) with ground wire is acceptable for branch circuiting if approved by local authority. E. Aluminum Conductors: Permitted only for panel feeders where shown on plans.
- 2.6 OUTLET BOXES
- A. Provide each switch, light, receptacle, or their outlet throughout the building, and each pull and junction box, with outlet box manufactured by Steel City. Bowers, or RACO. Galvanized steel knockout type with approved plaster ring in masonry, or octagon box with plaster ring for ceiling outlet, and set flush with the finished surface. Non-metallic device boxers may be used if type "NM" cable is utilized. B. Junction and Pull Boxes: Provide with screw covers located in an accessible location.
- C. Interior Single Pole Switches: Lutron "Decora" Series or equal color selected by
- Owner D. Interior Dimmer Switches: Lutron "Decora" Series or equal - (Low voltage where needed).
- E. Weatherproof Outlets: Hubbell No. 5205 plate with 5252 outlets.
- F. Duplex Receptacles: "Lutron", "Lumea" Series.
- 2.7 SECURITY SYSTEM
- A. Furnished by allowance, contractor installed. B. Install in accordance with manufacturer's written instruction.

PART 3 EXECUTION

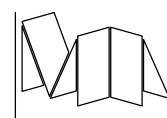
- B. Concealment: Conceal all conduit.
- 3.1 WORKMANSHIP A. Conduit: In accordance with Tables 1 and 4 of the NEC, of such size and so installed that conductors may be drawn in without injury or excessive strain. C. Support and Joints: Firmly secure all conduit not embedded in concrete by approved pipe clamps, hangers, etc. Treat joints of galvanized conduit with approved joint compound.
- D. Grounding: Ground all panelboard cabinets, equipment and enclosure and the complete conduit system in accordance with pertinent sections of Article 250 of the NEC. Bond all electrically operated equipment to the grounding system. Provide a mechanical bonding conductor in all raceways or cable assemblies sized in accordance with NEC 250-95.
- E. Wiring: Do not draw wiring into conduit until conduit system is complete; lubricant shall be Mineralacc or type approved by wiring manufacturer. F. Fixtures: Provide fixtures as indicated on schedule with lamps of required type and wattage. Verify ceiling construction for all recessed fixtures prior to ordering. Install all fixtures at locations shown. Provide fixtures with I.C. rating in insulated ceiling areas. G. Connections to Equipment: Make all power wiring connections for equipment furnished under other sections of these specifications, including necessary wiring for all air handlers, compressors, pumps, etc. Make connections to motors with flexible liquid-
- tight conduit. Obtain required information from other trades and rough-in to meet
- requirements of equipment. H. Verify nameplate ratings of all equipment and recommendations for breaker sizes prior
- to installation. Provide disconnect switches and fuses at equipment where indicated. I. Coordinate all aspects of the mechanical systems with the mechanical contractor prior to
- installation. Coordinate control requirements, provide relays, starters, etc., when not furnished with equipment.

GENERAL RESIDENTIAL NOTES:

- ALL RECEPTACLES IN THE FOLLOWING AREAS SHALL BE GFCI PROTECTED: KITCHEN COUNTERS, BATHROOMS, WET BAR SINKS, GARAGES, AND OUTDOORS PER NEC 210-8(a).
- PROVIDE A MINIMUM OF TWO 20 AMP SMALL APPLIANCE BRANCH CIRCUITS FOR RECEPTACLES IN THE KITCHEN PER NEC210-11(c)(1). THESE CIRCUITS SHALL HAVE NO OTHER OUTLETS PER NEC 210-52(b)(2).
- RECEPTACLES SERVING KITCHEN COUNTER SPACES MUST BE SPACED SO NO POINT OF A COUNTER IS FURTHER THAN 24" FROM A RECEPTACLE. ISLANDS AND PENINSULAR COUNTERS MAY HAVE NO POINT FURTHER THAN 4' FROM A RECEPTACLE. NEC210-52(c). A RECEPTACLE SHALL BE INSTALLED AT EACH WALL COUNTER SPACE THAT IS 12" OR MORE IN WIDTH PER NEC 210-52(c)(1). MOUNT HORIZONTAL AS PER ARCHITECTURAL DETAIL.
- A DEDICATED 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED FOR ALL THE BATHROOMS PER NEC 210–11(c) (3). PROVIDE A WALL MOUNTED RECEPTACLE OUTLET WITHIN 36" OF THE BATHROOM OR POWDER ROOM LAVATORY PER NEC 210-52(d). MOUNT HORIZONTAL AT +42" AFF.
- ALL BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ROOMS IDENTIFIED BY NEC 210–12(B) OUTLETS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTED.
- PROVIDE A DEDICATED 20 AMPERE BRANCH CIRCUIT TO THE LAUNDRY PER NEC 210-11(c)(2).
- ELECTRIC RANGES AND CLOTHES DRYERS SHALL BE SUPPLIED BY 4-WIRE GROUNDING TYPE CORD & PLUG ASSEMBLY PER NEC 250-134 & 138. RANGE & DRYER ENCLOSURES SHALL NOT BE GROUNDED BY CONNECTION TO THE GROUNDED CIRCUIT CONDUCTOR.
- REFER TO ARCHITECTURAL RESIDENTIAL UNIT PLANS DRAWINGS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES, CEILING FANS, AND FLOOR OUTLETS.
- THE ELECTRICAL CONTRACTOR & PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SHOWER DRAINS AND SHOWER CAN LIGHTS PRIOR TO ROUGH-IN OF THE DRAINS.
- 10. ALL CONDUIT INSIDE MECHANICAL ROOMS SHALL BE ROUTED CONCEALED IN WALLS. COORDINATE LOCATIONS OF HEAT PUMP DISCONNECT SWITCH WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL RCP DIMENSIONED PLANS FOR ALL SMOKE/CARBON MONOXIDE DETECTOR LOCATIONS.
- 12. IN ALL AREAS SPECIFIED IN NEC 210.52, ALL 15-AMPERE AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES AS REQUIRED BY NEC 406.11.
- 13. ALL RECEPTACLES LOCATED OUTDOORS SHALL BE LISTED AS "WEATHER-RESISTANT" AND SHALL BE INSTALLED IN A WEATHER-PROOF ENCLOSURE. WEATHER-PROOF ENCLOSURE SHALL BE LISTED FOR USE IN WET LOCATIONS PER NEC ART. 406.9(B).

GENERAL NOTES:

- ALL CONDUIT SHALL BE CONCEALED.
- 2. ALL LIGHTING FIXTURE & OUTLET BOXES SHALL BE RECESSED. 3. ALL BRANCH CIRCUITING CAST INTO SLAB SHALL BE SCHEDULE 40
- PVC OR PVC COATED MC CABLE.



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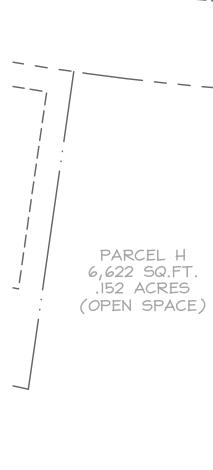




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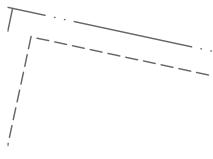
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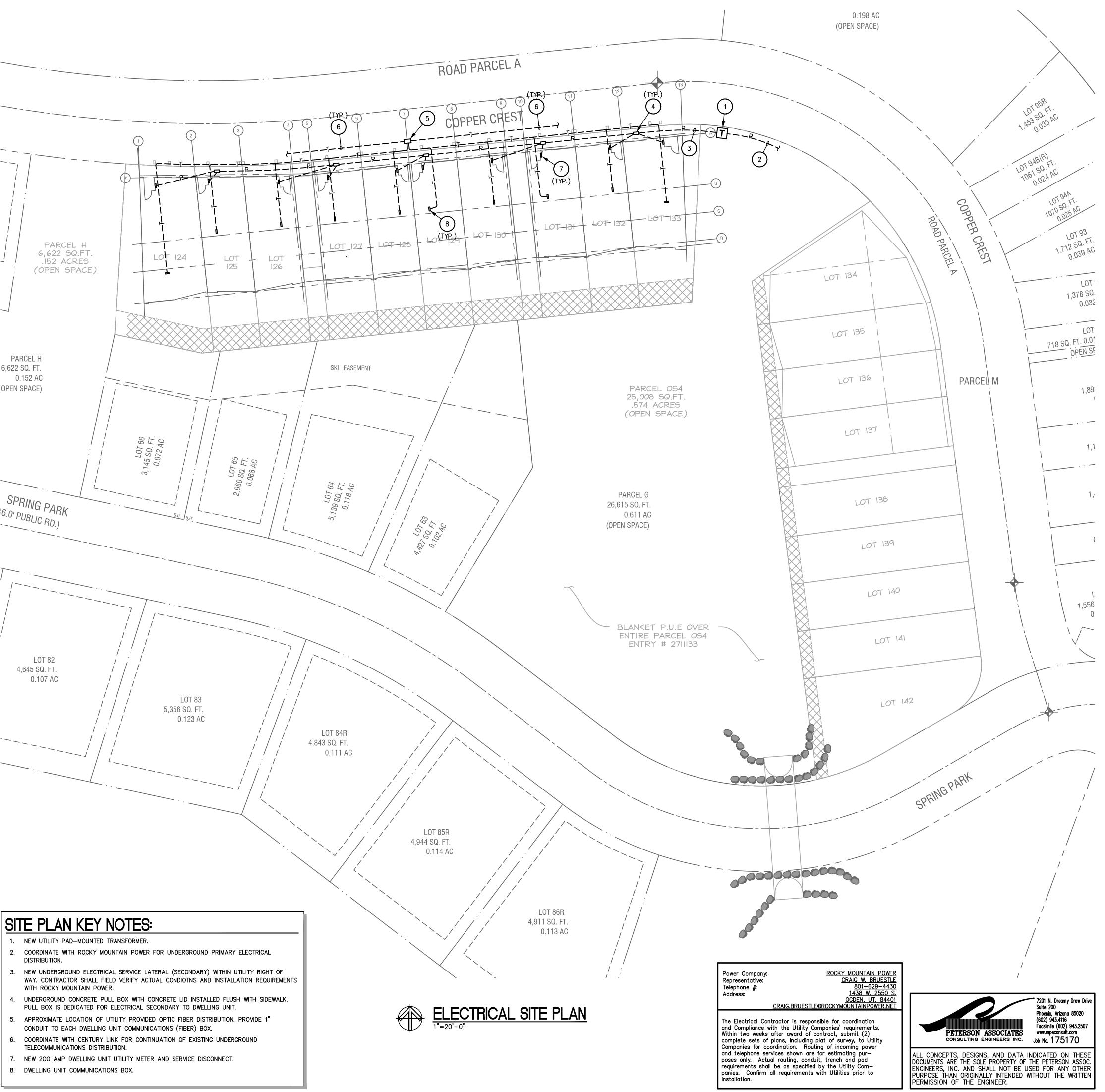
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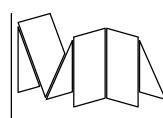
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0.107 AC



GENERAL SITE PLAN NOTES:

- 1. THE SIZE, LOCATION AND DEPTH OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN AND ASSOCIATED DETAILS ARE BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IN THE WORK AREA BEFORE DIGGING AND SHALL TAKE NECESSARY MEASURES TO PROTECT HIMSELF, HIS PERSONNEL, AND THE PUBLIC FROM HARM DUE TO CONTACT WITH UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THESE PLANS. CONTACT AN UNDERGROUND UTILITIES LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO DIGGING TO SPOT UTILITIES. NOTIFY THE ARCHITECT, ENGINEER, AND OWNER OF ALL INCORRECTLY CHARTED SITE UTILITIES ENCOUNTERED DURING THE COURSE OF THE WORK.
- REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION REGARDING UTILITY SERVICE REQUIREMENTS.
- REFER TO THE UTILITY SITE-SPECIFIC SHOP DRAWINGS FOR TRENCH ROUTING, CONDUIT SIZES, AND QUANTITIES FOR INCOMING ELECTRIC, PHONE, DATA, AND CABLE TV SERVICES.
- ELECTRICAL AND TELECOMMUNICATIONS SERVICE ROUTING SHOWN ON THE ELECTRICAL SITE PLAN ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- 5. SITE PLAN INDICATES GENERAL LOCATIONS OF UTILITY-OWNED, TRANSFORMERS, AND PRIMARY CABLE ROUTING BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. PRIOR TO ROUGH IN, VERIFY THE ACTUAL ROUTING OF UTILITY FEEDERS, PLACEMENT OF UTILITY FACILITIES AND EQUIPMENT WITH THE APPROVED SHOP DRAWINGS PREPARED BY THE ELECTRIC UTILITY COMPANY. COORDINATE UTILITY REQUIREMENTS WITH THE GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- UNLESS OTHERWISE DIRECTED BY THE UTILITY COMPANY, PROVIDE MINIMUM 24" COMPACTED COVER OVER UTILITY-OWNED SECONDARY SERVICE ENTRANCE CABLES. PROVIDE MINIMUM 36" COVER OVER UTILITY-OWNED PRIMARY CABLES.
- UNLESS DIRECTED OTHERWISE BY THE SERVING UTILITY, ALL UNDERGROUND CROSSINGS SHALL BE INSTALLED SO THAT THERE IS AT LEAST 12" CLEAR VERTICAL SEPARATION BETWEEN THE ELECTRIC UTILITY'S UNDERGROUND FACILITIES AND THE UNDERGROUND CONSTRUCTION BEING CROSSED.
- WHERE TELEPHONE AND/OR CATV CABLES ARE CO-LOCATED IN THE SAME TRENCH WITH ELECTRIC UTILITY-OWNED FACILITIES, THE TELEPHONE AND CATV LINES SHALL BE LOCATED ABOVE THE ELECTRIC LINES AND SHALL BE INSTALLED WITH MIMIMUM 6" CLEAR VERTIVAL SEPARATION. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS.
- WET UTILITITIES SHALL NOT BE RUN IN THE SAME TRENCH AS ELECTRIC, TELEPHONE, OR CATV UTILITIES. WHERE ELECTRIC TELEPHONE, OR CATV CROSS UNDERGROUND WET UTILITY LINES, A MINIMUM 24" VERTICAL SEPARATION SHALL BE MAINTAINED WITH THE WET UTILITY LINES PASSING BELOW. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS.
- 10. TRENCH BOTTOMS SHALL BE SMOOTH, FLAT AND WITHOUT SURFACE IRREGULARITIES. WHEN NECESSARY, PROVIDE SUFFICIENT QUANTITIES OF BEDDING MATERIAL TO PROVIDE THE REQUIRED SURFACE. BEDDING MATERIAL SHALL BE AS SPECIFIED BY THE UTILITY COMPANY.
- 11. WHEN CHANGING ELEVATIONS IN STRAIGHT CONDUIT RUNS, THE ELEVATION OF THE TRENCH BOTTOM SHALL NOT EXCEED 1'-0" RISE IN 12'-0" HORIZONTAL RUN.
- 12. PROVIDE ALL TRENCHING AND BACKFILL, EQUIPMENT PADS, AND FOUNDATIONS FOR UTILITY-OWNED EQUIPMENT PER UTILITY STANDARDS AND SPECIFICATIONS.
- 13. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.



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sma project no. 16-101

sma project name POWDERCAT

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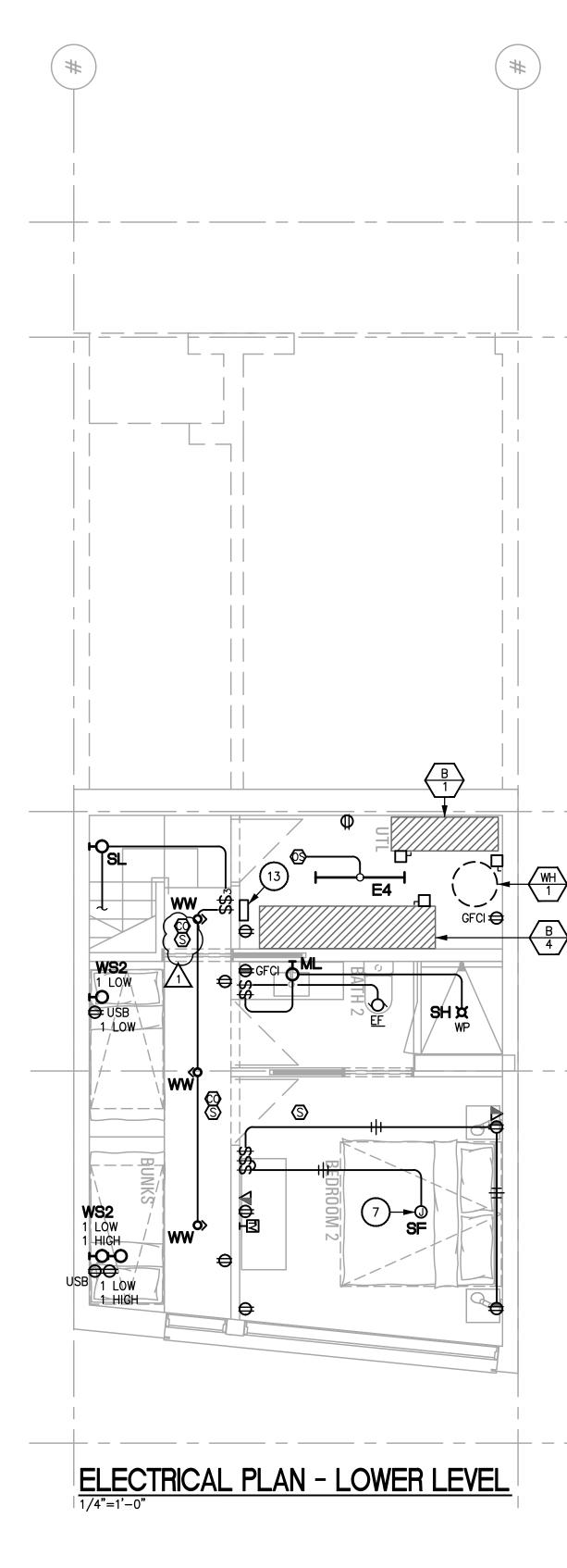


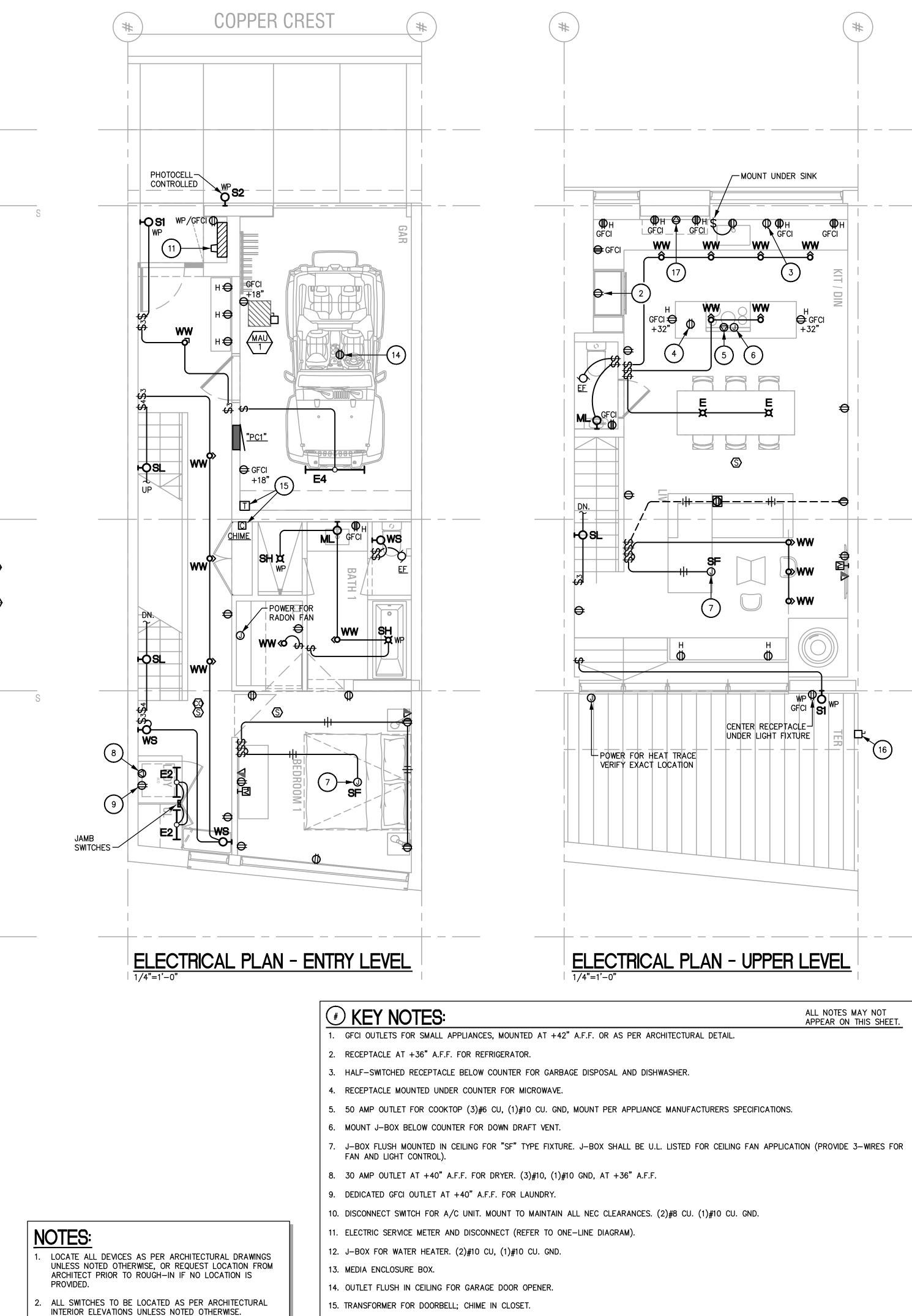
EXPIRES 03/31/19



N.T.S. scale

PERMIT phase / rev 2017.06.01



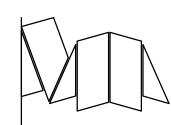


- 16. 60A-2P FUSIBLE NEMA 3R DISCONNECT FOR FUTURE HOT TUB, LOCATE IN TERRACE WALL.
- 17. 30A OUTLET FOR OVEN. (4)#10, (1)#10 GND, MOUNT PER APPLIANCE MANUFACTURERS SPECIFICATIONS.

- PROVIDE SHALLOW BOXES AS REQUIRED FOR INSTALLATION
- IN FURRED WALLS.



PERMIT SET phase / rev **2017.06.01** date



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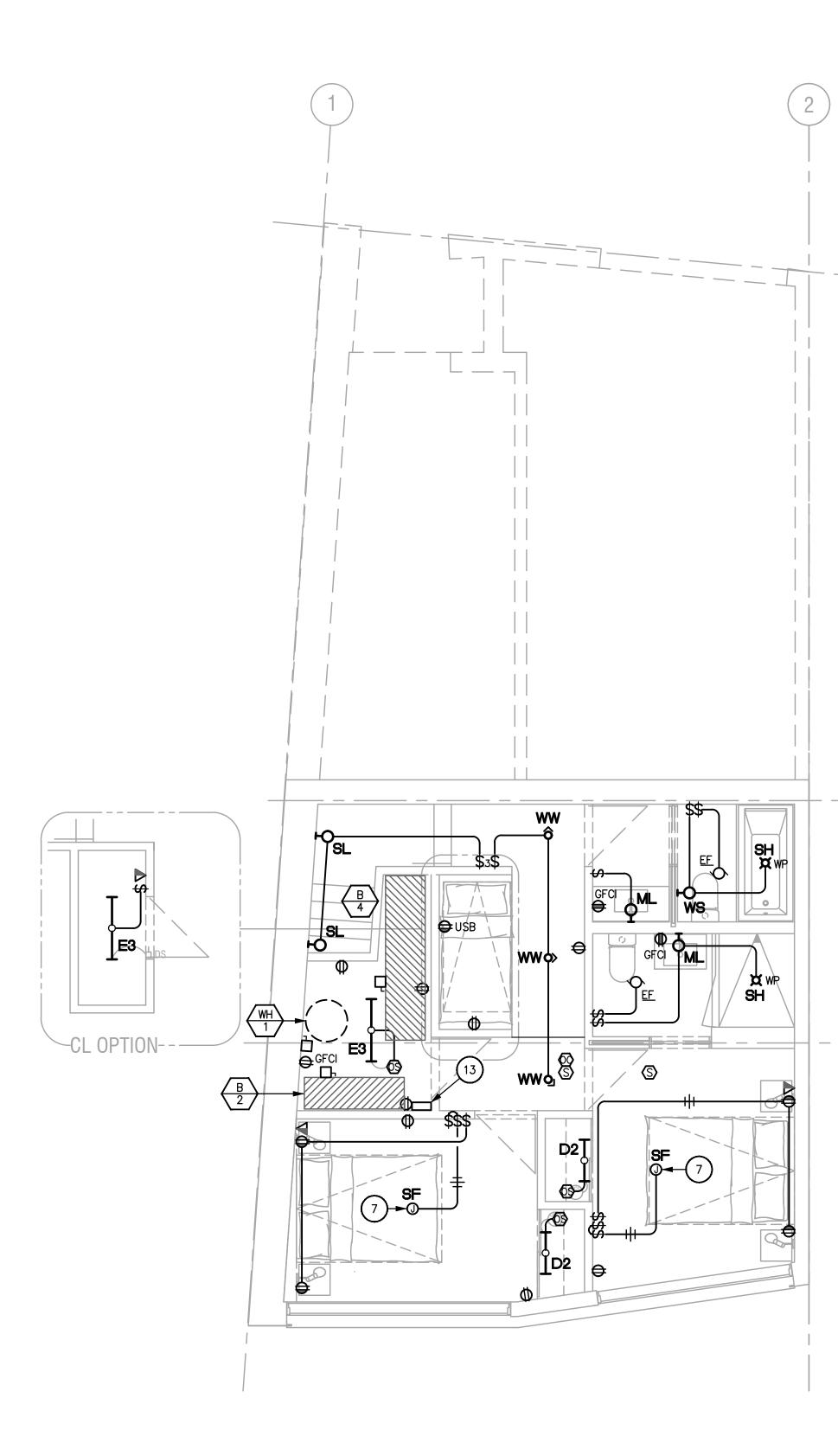
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EXPIRES 03/31/19



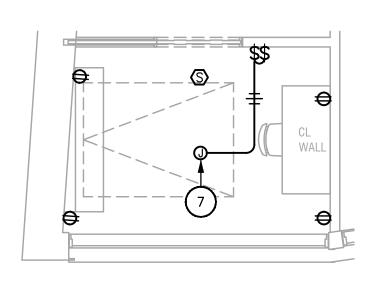
1/4" = 1'-0" scale

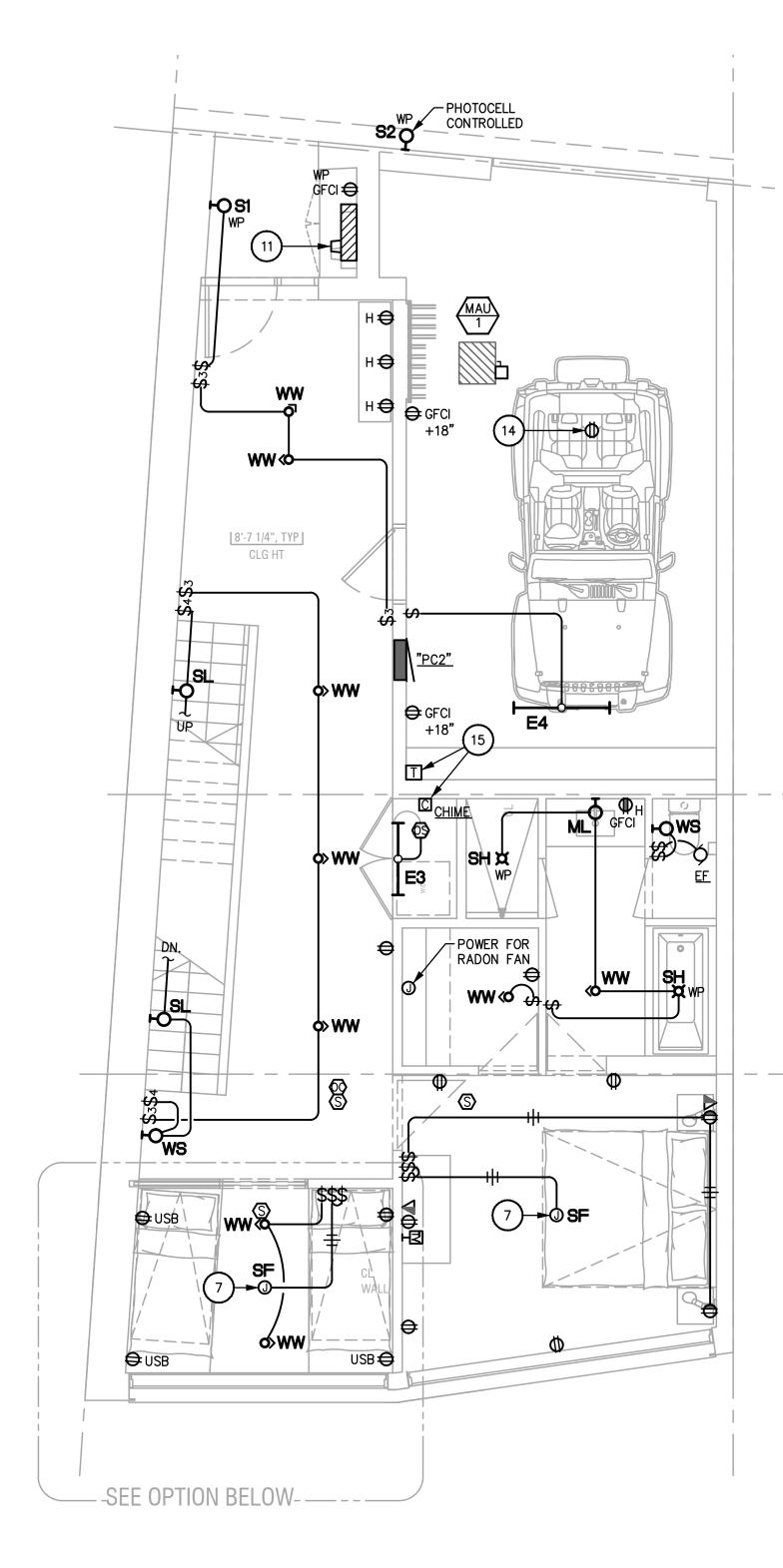


ELECTRICAL POWER PLAN - LOWER LEVEL



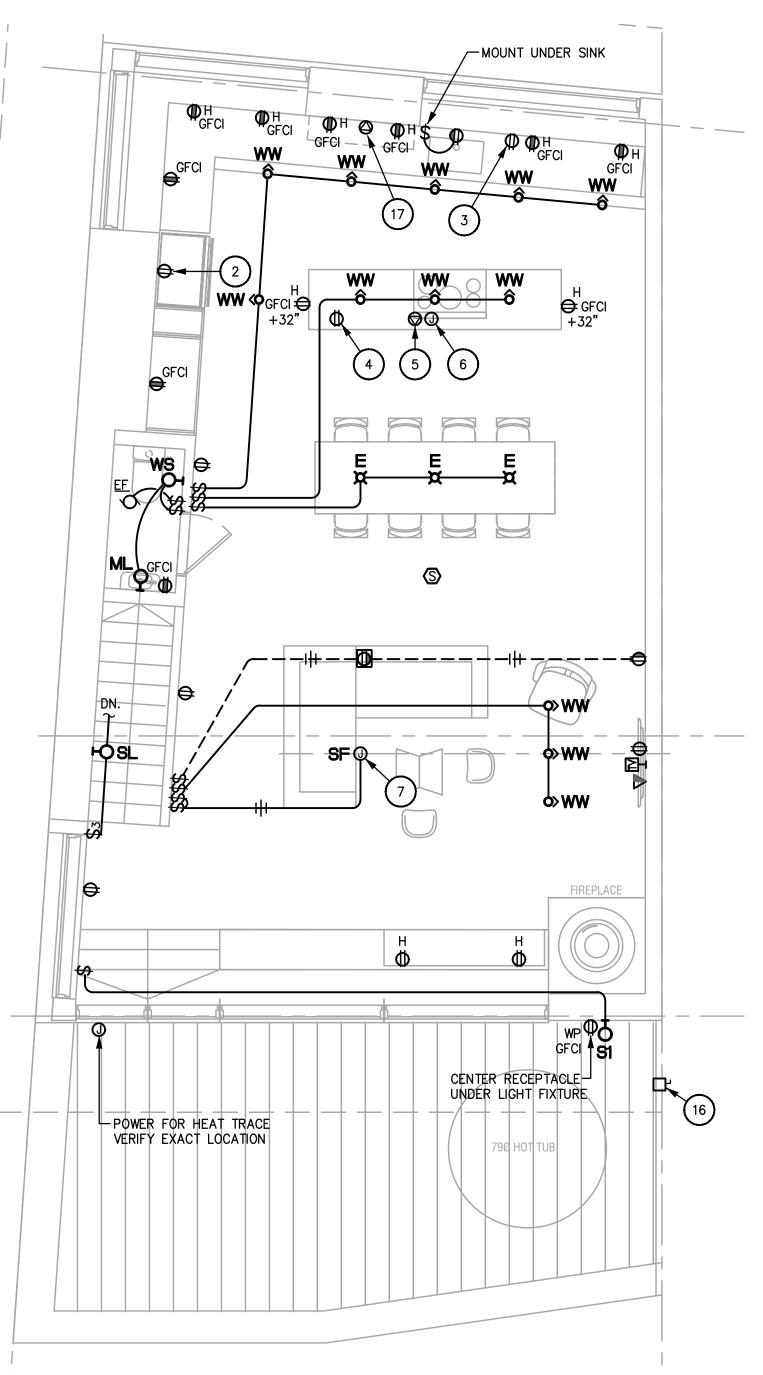
ENTRY LEVEL





| # | KEY NOTES |
|-----|---|
| 1. | GFCI OUTLETS FOR SMALL |
| 2. | RECEPTACLE AT +36" A.F. |
| 3. | HALF-SWITCHED RECEPTAC |
| 4. | RECEPTACLE MOUNTED UN |
| 5. | 50 AMP OUTLET FOR COOP |
| 6. | MOUNT J-BOX BELOW COU |
| 7. | J-BOX FLUSH MOUNTED IN FAN AND LIGHT CONTROL). |
| 8. | 30 AMP OUTLET AT +40" |
| 9. | DEDICATED GFCI OUTLET A |
| 10. | DISCONNECT SWITCH FOR |
| 11. | ELECTRIC SERVICE METER |
| 12. | J-BOX FOR WATER HEATER |
| 13. | MEDIA ENCLOSURE BOX. |
| 14. | OUTLET FLUSH IN CEILING |
| 15. | TRANSFORMER FOR DOORB |
| 16. | 60A-2P FUSIBLE NEMA 3R |
| 17. | 30A OUTLET FOR OVEN. (4 |
| | |
| N | OTES: |
| 1. | LOCATE ALL DEVICES AS F UNLESS NOTED OTHERWISE ARCHITECT PRIOR TO ROUG PROVIDED. |

- INTERIOR ELEVATIONS UNLESS NOTED OTHERWISE.
- FURRED WALLS.



ELECTRICAL POWER PLAN - UPPER LEVEL

- APPLIANCES, MOUNTED AT +42" A.F.F. OR AS PER ARCHITECTURAL DETAIL. .F.F. FOR REFRIGERATOR.
- ACLE BELOW COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER.
- NDER COUNTER FOR MICROWAVE.
- OKTOP (3)#6 CU, (1)#10 CU. GND, MOUNT PER APPLIANCE MANUFACTURERS SPECIFICATIONS.
- UNTER FOR DOWN DRAFT VENT.
- IN CEILING FOR "SF" TYPE FIXTURE. J-BOX SHALL BE U.L. LISTED FOR CEILING FAN APPLICATION (PROVIDE 3-WIRES FOR
- ' A.F.F. FOR DRYER. (3)#10, (1)#10 GND, AT +36" A.F.F.
- AT +40" A.F.F. FOR LAUNDRY.
- A/C UNIT. MOUNT TO MAINTAIN ALL NEC CLEARANCES. (2)#8 CU. (1)#10 CU. GND.
- AND DISCONNECT (REFER TO ONE-LINE DIAGRAM).
- TER. (2)#10 CU, (1)#10 CU. GND.
- FOR GARAGE DOOR OPENER.
- BELL; CHIME IN CLOSET.
- R DISCONNECT FOR FUTURE HOT TUB, LOCATE IN TERRACE WALL. 4)#10, (1)#10 GND, MOUNT PER APPLIANCE MANUFACTURERS SPECIFICATIONS.

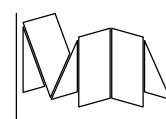
PER ARCHITECTURAL DRAWINGS E, OR REQUEST LOCATION FROM JGH-IN IF NO LOCATION IS

ALL SWITCHES TO BE LOCATED AS PER ARCHITECTURAL PROVIDE SHALLOW BOXES AS REQUIRED FOR INSTALLATION IN



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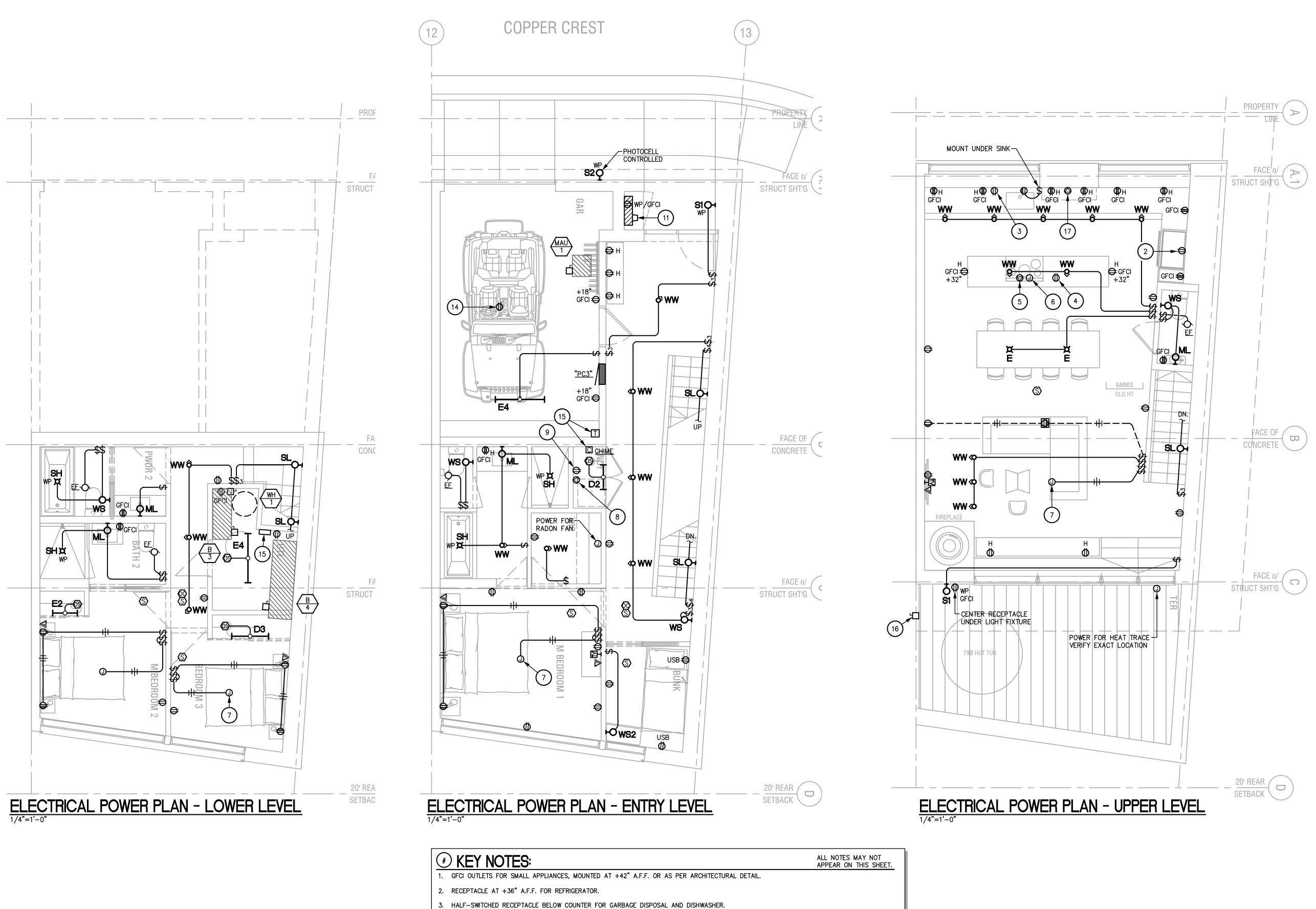
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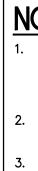




1/4" = 1'-0" scale



- 4. RECEPTACLE MOUNTED UNDER COUNTER FOR MICROWAVE.
- 5. 50 AMP OUTLET FOR ELECTRIC COOKTOP (3)#6 CU, (1)#10 CU. GND, MOUNT PER APPLIANCE MANUFACTURERS SPECIFICATIONS.
- 6. MOUNT J-BOX BELOW COUNTER FOR DOWN DRAFT VENT.
- 7. J-BOX FLUSH MOUNTED IN CEILING FOR "SF" TYPE FIXTURE. J-BOX SHALL BE U.L. LISTED FOR CEILING FAN APPLICATION (PROVIDE 3-WIRES FOR FAN AND LIGHT CONTROL).
- 8. 30 AMP OUTLET AT +40" A.F.F. FOR DRYER. (3)#10, (1)#10 GND, AT +36" A.F.F.
- 9. DEDICATED GFCI OUTLET AT +40" A.F.F. FOR LAUNDRY.
- 10. DISCONNECT SWITCH FOR A/C UNIT. MOUNT TO MAINTAIN ALL NEC CLEARANCES. (2)#8 CU. (1)#10 CU. GND.
- 11. ELECTRIC SERVICE METER AND DISCONNECT (REFER TO ONE-LINE DIAGRAM).
- 12. J-BOX FOR WATER HEATER. (2)#10 CU, (1)#10 CU. GND.
- 13. MEDIA ENCLOSURE BOX.
- 14. OUTLET FLUSH IN CEILING FOR GARAGE DOOR OPENER.
- 15. TRANSFORMER FOR DOORBELL; CHIME IN CLOSET.
- 16. 60A-2P FUSIBLE NEMA 3R DISCONNECT FOR FUTURE HOT TUB, LOCATE IN TERRACE WALL.
- 17. 30A OUTLET FOR OVEN. (4)#10, (1)#10 GND, MOUNT PER APPLIANCE MANUFACTURERS SPECIFICATIONS.





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E2.2 LOT 133 ENTRY AND LOWER LEVEL FLOOR PLANS

1/4" = 1'-0" scale

PERMIT phase / rev **2017.06.01** date

NOTES:

LOCATE ALL DEVICES AS PER ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE, OR REQUEST LOCATION FROM ARCHITECT PRIOR TO ROUGH-IN IF NO LOCATION IS PROVIDED.

ALL SWITCHES TO BE LOCATED AS PER ARCHITECTURAL INTERIOR ELEVATIONS UNLESS NOTED OTHERWISE. PROVIDE SHALLOW BOXES AS REQUIRED FOR INSTALLATION IN FURRED WALLS.



ELECTRIC TYPICAL UNI (1,545 S.F. |

GEN. LTG. 🕲 SMALL APPL REFRIGERATO MICROWAVE/ DISPOSAL/ COOKTOP/

LAUNDRY CIRC DRYER WATER HEAT SNOW MELT HOT TUB

> FIRST 10,0 REMAINDE BOILER MAU

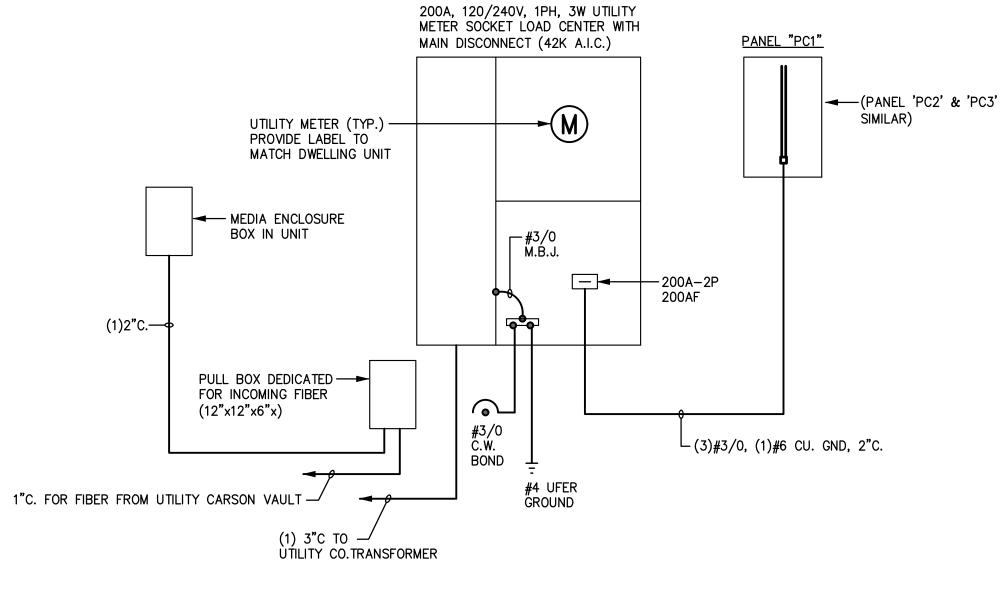
41,274 VA/

| | Isolated Ground Bus: NO Cabinet: NEMA 1 | - | | PANEL SCI (TYPICAL UI | | 1 | "F | PC1" | Status: NEW |
|---|--|-------|----------|--------------------------|------------------|----------|---------|-----------------------|------------------|
| | Type: BOLT-ON Mounting: | SURFA | CE | Voltage: 120/240 | /1Ph3W. | Bracing: | S.R. 42 | /10 | Mains: 200A. MLO |
| | Use and/or Area Served | С/В | Cir. No. | Volt-Amp Phase A | peres Phase B | Cir. No. | C/B | Use and/or Are | a Served |
| 4 | LTG & RECEPTS. | 20/1 | 1 | - | | | 20/1 | RECEPTS - S | MALL APPLIANCE |
| Ą | LTG & RECEPTS. | 20/1 | 3 | - | | 2 | 20/1 | RECEPTS - S | MALL APPLIANCE |
| A | LTG & RECEPTS. | 20/1 | 5 | | | 6 | 20/1 | RECEPTS - R | REFRIGERATOR |
| A | LTG & RECEPTS. | 20/1 | 7 | | | 8 | 20/1 | RECEPTS - M | IICROWAVE |
| A | LTG & RECEPTS. | 20/1 | 9 | S | | 10 | 20/1 | RECEPTS - D WASHER | SPOSAL/ DISH |
| A | LTG & RECEPTS. | 20/1 | 11 | CALCULATIONS) | | 12 | 50/2 | COOKTOP | |
| A | SPARE | 20/1 | 13 | | | 14 | | | |
| A | SPARE | 20/1 | 15 | | | 14 | 30/2 | OVEN | |
| A | SMOKE/ C.O. DETECTORS | 20/1 | 17 | | | | | | |
| G | RECEPTS - BATH | 20/1 | 19 | | | 18 | | SPACE | |
| G | RECEPTS - BATH | 20/1 | 21 | | | 20 | | SPACE | |
| G | RECEPTS - BATH | 20/1 | 23 | LOAD | | 22 | 20/1 | LAUNDRY | |
| G | RECEPTS - GARAGE | 20/1 | 25 | 0 | | 24 | 30/2 | DRYER | |
| G | RECEPTS - EXTERIOR | 20/1 | 27 | | | 26 | | | |
| G | RADON FAN | 20/1 | 29 | | | 30 | 40/2 | HOT TUB | |
| G | HEAT TRACE | 20/1 | 31 | REF1 | | 30 | | | |
| | MAU (5KW) | 30/2 | 33 | | | | 30/2 | WATER HEAT | TER (5.5KW) |
| | | | 35 | - | | 34 | | | |
| | BOILER (10KW) | 60/2 | 37 | | | 36 | 60/2 | SNOW MELT | (10KW) |
| | | | 39 | - | | 38 | | | |

A – CIRCUIT AFCI PROTECTED G – CIRCUIT GFCI PROTECTED

| CAL LOAD SUMMAF NIT LIVABLE) | <u>ELECTRIC</u> LOT 124 (2,128 S.F. LI | AL LOAD SUMMARY 'PC2' |
|--|--|--|
| [©] 3 VA/SQ. FT. = 4,6 PLIANCE (2) = 3,0 TOR = 1,5 TOR = 1,5 DISHWASHER = 1,5 OVEN = 11, | 00 VA SMALL APPLIA 00 VA REFRIGERATOR 50 VA MICROWAVE/ 00 VA DISPOSAL/ DI | 3 VA/SQ. FT. = 6,384 VA NCE (2) = 3,000 VA R = 1,500 VA VENT = 1,550 VA SHWASHER = 1,500 VA EN = 11,000 VA |
| TER = 5,5 T = 10, | 00 VA 00 VA 00 VA 00 VA 00 VA 000 | CUIT = $1,500 \text{ VA}$ = $5,000 \text{ VA}$ R = $5,500 \text{ VA}$ = $10,000 \text{ VA}$ = $5,500 \text{ VA}$ |
| = 50, 0,000 = 10,000 VA ER @ 40% = 16,274 VA | | = 52,434 VA = 52,434 VA @ 40% = 10,000 VA @ 40% = 16,974 VA |
| = 10,000 VA $= 5,000 VA$ $= 41,274 VA$ | BOILER | = 15,000 VA $= 5,000 VA$ $= 46,974 VA$ |
| 240V. = 172 AMPS | 46,974 VA/ 2 | $\frac{196 \text{ AMPS}}{196 \text{ AMPS}}$ |

| ELECTRICAL LOA LOT 133 (1,803 S.F. LIVABLE) | AD SUMMARY 'PC3' |
|---|---|
| GEN. LTG. @ 3 VA/SC SMALL APPLIANCE (2) REFRIGERATOR MICROWAVE/ VENT DISPOSAL/ DISHWASHI COOKTOP/ OVEN | = 3,000 VA = 1,500 VA = 1,550 VA = 1,550 VA = 1,500 VA = 11,000 VA |
| LAUNDRY CIRCUIT DRYER WATER HEATER SNOW MELT HOT TUB | = 1,500 VA = 5,000 VA = 5,500 VA = 10,000 VA = 5,500 VA = 5,500 VA = 51,459 VA |
| FIRST 10,000 REMAINDER @ 40% | |
| BOILER MAU | = 15,000 VA = 5,000 VA = 46,584 VA |
| 46,584 VA/ 240V. | = <u>194 AMPS</u> |



Cabinet: NEMA 1 Type: BOLT-ON Use and/or Area Served LTG & RECEPTS. А LTG & RECEPTS. Α LTG & RECEPTS. А LTG & RECEPTS. Α A SMOKE/ C.O. DETECTORS G RECEPTS - BATH G RECEPTS - BATH G RECEPTS - BATH G RECEPTS - GARAGE RECEPTS - EXTERIOR G RADON FAN G G HEAT TRACE MAU (5KW) BOILER (15KW) A – CIRCUIT AFCI PROTECTED G – CIRCUIT GFCI PROTECTED Isolated Ground Bus: Cabinet: NEMA 1 Type: BOLT-ON Use and/or Area Served LTG & RECEPTS. А LTG & RECEPTS. Α LTG & RECEPTS. Α LTG & RECEPTS. Α LTG & RECEPTS. А A LTG & RECEPTS. LTG & RECEPTS. Α SPARE Α SMOKE/C.O. DETECTORS Α RECEPTS - BATH G RECEPTS - BATH G RECEPTS - BATH G SPACE SPACE G RADON FAN

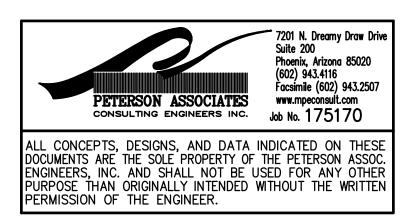
Isolated Ground Bus:

HEAT TRACE G MAU (5KW) BOILER (15KW) A – CIRCUIT AFCI PROTECTED G – CIRCUIT GFCI PROTECTED

ELECTRICAL ONE-LINE DIAGRAM

| NO | | | PANEL SC (LOT 12 | | | " | PC2'' | Status: NEW | |
|------------|-------|----------|---------------------|-------------------|----------|---------|----------------------|----------------|---|
| N Mounting | SURFA | CE | Voltage: 120/240 | 0V1Ph3W. | Bracing: | S.R. 42 | /10 Mains: 200A. MLO | | |
| | C/B | Cir. No. | Volt-Ar Phase A | nperes Phase B | Cir. No. | С/В | Use and/or Are | a Served | |
| | 20/1 | 1 | | T Hase D | | 20/1 | RECEPTS - S | MALL APPLIANCE | G |
| | 20/1 | 3 | | | 2 | 20/1 | RECEPTS - S | | G |
| | 20/1 | 5 | | | 4 | 20/1 | RECEPTS - R | EFRIGERATOR | G |
| | 20/1 | 7 | | | 6 | 20/1 | RECEPTS - M | | G |
| | | | | - | 8 | | | | |
| | 20/1 | 9 | | | 10 | 20/1 | WASHER | DISPOSAL/ DISH | G |
| | 20/1 | 11 | | 2 | 12 | 50/2 | COOKTOP | | |
| | 20/1 | 13 | • | ζ | 14 |] | | | |
| | 20/1 | 15 | | | 16 | 30/2 | OVEN | | |
| RS | 20/1 | 17 | | | | - | | | |
| | 20/1 | 19 | | | 18 | | SPACE | | |
| | 20/1 | 21 | | 2 | 20 | | SPACE | | |
| | 20/1 | 23 | | | 22 | 20/1 | LAUNDRY | | G |
| | 20/1 | 25 | - | | 24 | 30/2 | DRYER | | |
| | | 27 | | | 26 | 00/2 | DITER | | |
| | 20/1 | | | | 28 | - | | | |
| | 20/1 | 29 | | | 30 | 40/2 | HOT TUB | | G |
| | 20/1 | 31 | | 2 | 32 | | | | |
| | 30/2 | 33 | | | 34 | 30/2 | WATER HEAT | TER (5.5KW) | 1 |
| | | 35 | | | | 4 | | | |
| | 80/2 | 37 | | | 36 | 60/2 | SNOW MELT | (10KW) | |
| | | 39 | | | 38 | | | | |
| | | | | | 40 | | | | l |

| NO | | PANEL SCHEDULE (LOT 133) | | | | "PC3" | | Status: NEW | |
|----|-----------|-----------------------------|----|-------------------------|---------|---------------------|------|------------------|----------------|
| 1 | Mounting: | SURFACE | | Voltage: 120/240V1Ph3W. | | Bracing: S.R. 42/10 | | Mains: 200A. MLO | |
| | | C/B Cir. No. | | Volt-Amperes | | Cir. No. C/B | | Use and/or Are | a Served |
| | | 20/1 | 1 | Phase A | Phase B | | 20/1 | RECEPTS - S | MALL APPLIANCE |
| | | | | | | 2 | | | |
| | | 20/1 | 3 | | | 4 | 20/1 | RECEPTS - S | MALL APPLIANCE |
| | | 20/1 | 5 | 1 | | | 20/1 | RECEPTS - R | EFRIGERATOR |
| | | 20/1 | 7 | - | | 6 | 20/1 | RECEPTS - N | IICROWAVE |
| | | | | | _ | 8 | | | |
| | | 20/1 | 9 | | | 10 | 20/1 | RECEPTS - D | ISPOSAL/ DISH |
| | | 20/1 | 11 | | 5 | | 50/2 | COOKTOP | |
| | | 20/1 | 13 | F | | 12 | | | |
| | | | | | C J | 14 | | | |
| | | 20/1 | 15 | | , | 16 | 30/2 | OVEN | |
| s | | 20/1 | 17 | | | | | | |
| | | 20/1 | 19 | | ζ. | 18 | | SPACE | |
| | | | | | | 20 | | | |
| | | 20/1 | 21 | | ť | 22 | | SPACE | |
| | | 20/1 | 23 | 1 C | 2 | | 20/1 | LAUNDRY | |
| | | | 25 | | | 24 | 30/2 | DRYER | |
| | | | 27 | i f | _ | 26 | | | |
| | | | 21 | <u>e</u> | í | 28 | | | |
| | | 20/1 | 29 | | - | 30 | 40/2 | HOT TUB | |
| | | 20/1 | 31 | | ļ | - 30 | | | |
| | | 00/0 | 22 | | | 32 | 00/0 | | |
| | | 30/2 | 33 | 1 | | 34 | 30/2 | WATER HEAT | IER (5.5KVV) |
| | | | 35 | 1 | | | | | |
| | | 80/2 | 37 | 1 | | 36 | 60/2 | SNOW MELT | (10KW) |
| | | | | 1 | | 38 | | | · / |
| | | | 39 | 1 | | 40 | | | |



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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E3.0 ONE-LINE DIAGRAM

N.T.S. scale

SECTION 15300 - FIRE PROTECTION SPECIFICATION (Wet Automatic Sprinkler System)

PART 1 GENERAL

- 1.1 General Conditions and Special Conditions:
- A. Bidding requirements, general conditions, general requirements, appendices, and addendums apply to the work under this section as depicted in Project Specification Manual.
- 1.2 General Description:
- A. Provide all materials, labor, and equipment required for new wet, Automatic Sprinkler (A.S.) system in accordance with State Fire Marshal, National Fire Protection Association (N.F.P.A.), International Building Code (I.B.C.), Local Fire Prevention Department, Local Building Department and any other authorities having jurisdiction. It shall further include furnishing and installing all miscellaneous items required for the proper operation of the A.S. system, whether specifically called for or not. Install and deliver all systems complete, in perfect working order, and in full accordance with the intent and meaning of the specifications and/or drawings.
- B. This Contract shall begin at point of connection to the underground riser supply line. Coordinate required work with Utility Contractor.
- 1.3 Intent of Specifications:
- A. It is intended that the work performed pursuant to these specifications shall be complete in every respect; resulting in a system installed entirely in accordance with all applicable codes, standards, manufacturer's recommendations and UL listings and FM approvals. All work in general consists of, but is not necessarily limited to, these specifications and latest accepted code approved design and installation standards.
- B. It is further intended that upon completion of work, the Owner shall be provided with the following:
- 1. Complete information and drawings describing and depicting the entire system(s) as installed, including all information necessary for maintaining and trouble-shooting the system.
- 2. Complete documentation of system testing.
- 3. Written certification that the system(s) has been tested and inspected, is installed entirely in accordance with the applicable codes, standards, manufacturer's recommendations, U.L. listings, F.M. approvals, etc. and is in proper working order.
- 4. It is intended that the Contractor be responsible for work with other trades.
- 1.4 Related Work Provided by Other Sections:
- A. The following related work shall be performed under other sections:
- 1. Painting of sprinkler piping and valves, including the placement and removal of bags or other protection devices on sprinklers to prevent paint from touching any portion of the sprinkler.
- 2. Alarm system shall be provided by Electrical and/or Alarm Contractor(s).
- 3. Concrete filled pipe guard posts for protection of riser(s), backflow assembly, etc. shall be provided where equipment or materials are subject to vehicular traffic.
- 4. Concrete splash blocks at main drain, inspector's test outlets and auxiliary drain outlets, if necessary.
- 1.5 Work to be Performed:
- A. Complete automatic sprinkler system protection throughout the project in accordance with these specifications and drawinas.
- B. Be fully informed regarding all regulations and limitations of the spaces available for installation of the automatic sprinkler system. Later claims for labor, work, material and equipment required for any difficulties encountered that could have clearly been foreseen will not be recognized, and all such difficulties shall be properly handled by this Contractor at no additional cost to the Owner.
- C. Accuracy of pre-fabricated pipe, location of sprinklers and deflectors (per NFPA and inspections), field fit of piping, piping elevations, riser nipple lengths and dimensioning.
- 1.6 Codes, Standards, Ordinances and Permits:
- A. All work shall conform to the requirements of the applicable portions of the National Fire Protection Association (NFPA) Standards and Recommended Practices (including Appendices) listed herein:
- 1. NFPA-13D, current Edition, "Standard for the Installation of Sprinkler Systems".
- 2. NFPA-24, current Edition, "Private Fire Service Mains and their Appurtenances"
- 3. NFPA-25, current Edition, "Inspection Testing and Maintenance of Water-Based Fire Protection Systems".
- B. All work, materials, and equipment shall conform to all Local, State and Federal Codes as well as all other authorities having jurisdiction. If more current editions of aforementioned standards, or additional standards are required then they shall be applied.
- C. If there is a conflict between the referenced standards, codes, or authorities having jurisdiction: then it shall be the Contractor's responsibility to bring the conflict to the attention of the Owner or his/her Agent immediately for resolution prior to commencement of any additional work. This conflict shall be resolved at no additional cost to the Owner.
- D. The Contractor shall be responsible for filing all documents, paying all fees and securing all permits, inspections and approvals necessary for conducting this work.
- 1.7 Quality Assurance:
- A. Installer Qualifications: Installation and alterations of fire protection piping, equipment, specialties, accessories, and repair and servicing of equipment shall be performed only by a qualified installer. The term qualified means experienced in such work (experienced shall mean having a minimum of 5 previous projects similar in size and scope to this project), familiar with all precautions required and has complied with all the requirements of the authorities having jurisdiction. Installer shall be licensed with the State and Local authorities having jurisdiction. Submit evidence of such qualifications to the Owner or his/her Agent with submission of bid.
- 1.8 Definitions:
- A. Contractor: The Fire Protection Contractor and any of his/her sub-contractors, vendors, suppliers, or fabricators.
- B. Provide: Furnish and install.
- C. Furnish: Purchase and deliver to other trades or Owner for installation.
- D. Install: Install materials, equipment or assemblies furnished by other trades or Owner.
- E. Concealed: Where used in connection with installation of piping and accessories, shall mean that hidden from sight as in chases, furred spaces, pipe shafts, or above suspended ceilings. "Exposed" shall mean "not concealed" as defined above.
- F. Fire Protection Consultant:
 - Peterson Associates Consulting Engineers, Inc. Contact:
- 1.9 Submittals:
- A. The Owner or his Agent, Architect and Fire Protection Consultant shall review all submittals for conformance to these specifications.
- B. Contractor may submit for review and approval any proposed substitution of materials or method of installation, from that specified, with material submittals.
- C. If submittals or proposed substitutions, upon review are found not to conform to the requirements of these specifications, the Contractor shall be required to resubmit with modification. Not approved items shall be resubmitted. The Contractor shall be responsible for the Owner's expenses for subsequent revisions of rejected submittals necessitated by the Contractor's failure to make the requested modifications. Such extra fees shall be deducted from payments by the Owner to the Contractor.

- 1.10 Manufacturer's Data:
- B. When a data sheet shows more than one product, the proposed product shall be clearly indicated by arrows or other suitable means.
- 1.11 Shop/Fabrication Drawings: A. Within 30 days after award of contract, the Contractor shall submit six (6) sets of manufacturer's data sheets, catalog cut sheets, shop drawings and data on devices for all necessary approvals prior to fabrication of materials.
- B. No extension of the contract time will be granted for the Contractor's failure to allow sufficient time for review and processing, or for shop drawings which have been returned due to improper submission.

by all required parties.

- 1.12 Operation and Maintenance Manual:
- A. The Contractor shall provide the Owner with a looseleaf manual containing;
- 1. A detailed description of the system. 2. A detailed description of routine maintenance required or recommended or as would be provided under a maintenance schedule and detailed maintenance
- instructions for each type of device installed.
- 3. A list of recommended spare parts. 4. Service Directory.
- 5. 11 inch by 17-inch reduced copies of the "record" drawings.
- 1.13 Record Drawings:
- A. The Contractor shall maintain on the site an accurate record of all changes made to the system layout from that shown on the approved drawings
- B. Upon completion of the work, before final approval, one (1) set of reproducible mylar record" drawings shall be delivered to the Owner. Contractor shall coordinate this with Architect
- C. At least one set of approved drawings with all required stamps of approval shall be maintained on-site and made available to City Inspectors on demand during construction phase of work.
- 1.14 Changes:
- A. Make no changes in installation from layout as shown on the approved drawings unless change is specifically approved by the Engineer. This does not include minor revisions for the purpose of coordination, or to clear ducts or obstructions.
- responsibility.
- 1.15 Leak Damage: A. The Contractor shall be responsible during the installation and testing period of the sprinkler system for any damage to the work by others, to the building, its contents, etc. caused by leaks in any equipment, by unplugged or disconnected pipes, fittings, etc., or by overflow, and shall pay for the necessary replacement or repairs to work of others, damaged by such leaks.
- 1.16 Freight and Hauling: A. Deliver materials to the job site, unload, and store in location determined by the Owner's Representative and General Contractor.
- 1.17 Base Bid:
- A. The base bid shall be lump-sum or in accordance with Division I of specifications. 3. The Contractor shall indicate the number of sprinklers included in base bid, including the number of sprinklers allowed for obstructions and ductwork.
- 1.18 Cleanup:
- A. Maintain the premises free from accumulation of waste material or rubbish caused by this
- 1.19 Safety:
- A. All work shall be performed in compliance with the Occupational Safety and Health Act of 1970 and Construction Safety Acts Standards (or current).
- 1.20 Guarantee Period:
- 1.21 Emergency Service:
- A. During the warranty period, the Contractor shall provide emergency repair service for the entire automatic sprinkler system. This service shall be provided on a 24-hour per day, 7 day per week basis. Coordinate details with Owner's representative.
- 1.22 Spare Parts and Special Tools:
- 1.23 Final Approval and Acceptance:
- A. Final approval and acceptance of the work will not be given by the Owner until:
- 1. The completed sprinkler system has been inspected, tested and approved by the Owner, Architect, and all other authorities having jurisdiction.
- 2. Required submittals, system operation and maintenance manuals. "record" drawings, spare parts, and special tools have been provided to, reviewed, and accepted by the Owner.

- FM approvals.
- 2.2 Piping:
- A. Manufacturers:
- B. Sprinkler system piping or tubing shall meet the requirements of NFPA 13, be U.L. listed and F.M. approved. Contractor shall base his bid on the use of any one or a combination of the following:
- PART 2 PRODUCTS

A. The Contractor shall submit manufacturer's data sheets showing the type and model of all equipment or material proposed. This information shall include, but not be limited

C. The Contractor will not be authorized to start any portion of the work until the catalog cuts and other required submittals for that portion are recieved, reviewed and approved

B. Any changes made other than stated above are at the Contractors own expense and

- A. The Contractor shall guarantee in writing (triplicate) all materials and workmanship for a period of one year beginning with the date of substantial completion. The contractor shall be responsible during the design, installation, testing and guarantee period for any damage caused by him/her (or his/her Subcontractors) or by defects in his/her (or his/her Subcontractor's) work, materials, or equipment.
- A. Contractor shall install code approved metal sprinkler cabinet containing six (6) sprinklers and two (2) sets sprinkler wrenches compatible with each type of sprinkler
- 2.1 Sprinkler System Components General:
- A. All equipment and system components furnished and installed shall be new and unused, or first quality, similar in manufacturer and be listed by Underwriters Laboratories Inc. and approved by Factory Mutual for their intended use. All such equipment and system components shall be installed within the limitations of the respective UL listings or
 - Allied Tube and Conduit (Grinnell) Western Tube and Conduit Corp.

- C. Pipe meeting ASTM A-795 and/or A-135 requirements for above grade use. All pipe shall have a minimum Corrosion Resistance Ratio (CRR) of 1.00 or greater, as per U.L listings. All piping shall be black carbon steel.
- D. Underground pipe and fittings (to 5'-0" beyond building): Class 150 centrifugal cast iron enameling, or cement lined mechanical joint, "Tyton" joint, conforming to USAS A-21.6 (AWWA Specification C-106); or "Permastran" conforming to ASTM D 2992 and ASTM D 2996. Class 50 ductile iron pipe. Block underground piping, fittings and thrust blocks per N.F.P.A. - 24.
- E. Flanges and flanged fittings shall be 175 psi cast iron with standard ring gaskets.
- F. Pipe and fittings shall be listed by Underwriters Laboratories, Inc. and approved by Factory Mutual for use in fire protection system(s) and designed to withstand a working pressure of not less than 175 psi. Where site pressures are not regulated/reduced & they exceed 250 psi, the F.P. contractor shall provide sprinklers & fittings suitable for such high pressures.
- G. Flexible couplings shall be U.L. and F.M. approved.
- H. Pipe penetrations through masonry and fire rated construction shall be sleeved and sealed with seals commensurate with the building construction.
- I. Pipe penetrations through floors and exterior walls shall be approved waterproof seals.
- When system piping pierces a foundation wall below grade or is located under the foundation wall, clearance shall be provided to prevent breakage of piping due to building settlement. Do not locate pipe joints within or under a foundation wall and a 1-3 inch clearance shall be provided around piping by use of sleeve for piping piercing a foundation wall. Sleeve properly and fill clear space with approved waterproof packina.
- K. Use of foreign-made piping or fittings shall not be permitted.
- L. Use of copper piping and fittings in accordance with NFPA-13 is permissible.
- 2.3 Valves:
- A. Except for miscellaneous small valves, all valves shall be plainly marked with the name or registered trademark of the manufacturer, size of the valve, and UL or FM identification mark. All valves shall be suitable for 175 psi working water pressure.
- B. All water supply control valves shall be an indicating type and shall be furnished with a valve supervisory device.
- C. All valves shall be located within six (6) feet of the floor.
- 2.4 Automatic Sprinklers:
- A. Sprinklers shall be of the listed automatic, glass bulb type, and shall be distributed throughout the building per code and approved construction documents.
- B. Sprinklers required due to ceiling projections/obstructions and ductwork are not considered additional sprinklers. Contractor shall be responsible for identifying these locations
- 2.5 Hose Threads:
- A. Hose threads for hydrants and fire department Siamese connections shall match those of the local Fire Department.
- 2.6 Fire Department Connection:
- A. Fire department connection shall be provided in accordance with requirements of all authorities having jurisdiction. Provide with check valve. Approved automatic drip shall be required only where FDC is not remotely located.
- 2.7 Supervisory and Alarm Equipment:
- A. Paddle-type waterflow indicators with adjustable pneumatic retard chamber (0-90 seconds) shall be provided to indicate waterflow for the new sprinkler system.
- B. Valve supervisory switches shall be provided for all new valves controlling the water supply to the sprinkler system.
- C. All electrical wiring of alarm and supervisory devices into the detection and fire alarm system shall be done under separate contract.
- 2.8 Inspector's Test Connections:
- A. Provide test connection at most remote portion of the A.S. system, with 1" pipe and valve. Test connection piping shall be connected to sprinkler branch line at least 1-1/4" in diameter and shall discharge outside building through smooth bore brass outlet.
- 2.9 Hangers:
- A. Use beam clamps or hang from top chord of joists. Do not hang from bottom chord of joist or bridging.
- B. Trapeze hang all mains where possible. Verify all hanger types with Structural Drawings and Engineer prior to commencement of any work.
- C. Provide earthquake bracing. Install in accordance with NFPA-13 and all authorities havina jurisdiction. Pipe to be generally supported by clamps and rods and secured to overhead construction
- PART 3 EXECUTION
- 3.1 Starting and Completion Dates:
- A. The schedule for installation of the sprinkler systems will be established at the pre-bid meeting. Coordinate schedule closely with Owner/Architect.
- 3.2 Inspection:
- A. The Contractor shall daily examine all areas in which the work will be performed. The Contractor shall immediately report unsatisfactory working conditions to the Owner or his/her Agent for resolution. The contractor shall not proceed with the work until all unsatisfactory working conditions have been corrected.
- B. Owner, Architect, and all authorities having jurisdiction shall be allowed to conduct inspections and tests as they choose. Approved sprinkler plans must be available on the project site during installation and inspection of the work.
- 3.3 Installation General:
- A. All holes made by the Contractor in any wall, ceiling or floor shall be patched by the Contractor, restoring the wall, ceiling or floor to its original condition, fire resistance and intearity.
- B. Removal and repair of all finished surfaces shall be coordinated with the Architect and subject to his approval.
- C. Location of all equipment, controls, piping, valves and drain shall be subject to Architect/Owner approval.
- D. Standard metal signs shall be provided in accordance with NFPA-13.
- E. All sprinklers and equipment shall be installed in accordance with manufacturer's
- instructions. All special tools recommended by the manufacturer shall be used. 3.4 Installation Piping and Sprinklers:
- A. Where sprinkler piping is installed in finished areas, the Contractor shall install all new piping so that it is concealed above finished ceilings, provide a minimum separation of 12" between the ceiling height and the bottom of the sprinkler pipe. Pipe installed in unfinished areas may be exposed.
- B. All exposed pipe which passes through a wall, ceiling, or floor shall be provided with chrome escutcheon plates.
- C. All piping shall be installed so as not to obstruct any portion of a window, doorway, stairway or passageway, and shall not interfere with the operation or accessibility of any mechanical, plumbing or electrical equipment. Run piping horizontally and at right angles to walls and ceilings or along slope of ceilings.

- D. All sprinkler piping, drain and test piping, etc. installed through exterior walls shall be galvanized and have a $4^{2}-0^{2}$ minimum length to first valve located inside insulated building envelope.
- E. All sprinkler piping must be substantially supported from building structure and only approved type hangers shall be used. Sprinkler lines under ducts shall not be supported from ductwork, but shall be supported from building structure with trapeze hangers where necessary, in accordance with NFPA-13. Tapping or drilling of structural elements is not permitted. Use beam clamps or hang from top chord of joist. Do not hang from bottom chord of joist.
- F. Pendent sprinklers shall be in alignment with, and parallel to ceiling fixtures, walls, etc.
- G. Sprinklers shall be installed per the requirements of NFPA 13 with regard to ducts, obstructions, steel beams and joists, partitions, and ceiling projections. Provide additional sprinklers as required.
- H. Contractor shall provide complete sprinkler protection before combustible contents are moved into the building. I. All sprinkler piping and fittings shall be so installed such that system may be drained.
- System shall primarily be designed to drain through main drain at riser(s).
- J. Minimum and maximum deflector distances shall be per NFPA requirements and manuf. listina.
- K. A minimum distance between sprinklers of 6'-0'' or as required by sprinklers U.L. listing, shall be provided to avoid cold soldering of sprinklers.
- 3.5 System Drains:
- A. Provide 2" main drain valves at system control valves and extend piping to outside building. Provide a 4'-0" minimum length of main drain piping from exterior wall penetration to anale valve.
- B. Pipe all drains to a location where water drained will not damage stock, equipment, vehicles, planted areas, etc., injure personnel, or patrons, or cause an unsightly wet area in front of any entrances.

3.6 Sleeves:

- A. Set sleeves securely in place for all pipes passing through floor and masonry wall
- B. Space between sleeve and pipe shall be filled with packing commensurate with construction. Provide chrome wall plates at each side of wall.
- C. Sleeves and seals through floors and exterior wall shall be watertight.
- D. All sleeves shall meet requirements of all authorities having jurisdiction.
- 3.7 Fire Department Connection:
- A. Install fire department connection properly connected to piping. Provide with check valve. Where located inside building; distance from check valve to wall mounted F.D.C. shall be 4'-0'' minimum, and automatic drip connection shall be provided.
- B. Where remotely located F.D.C. shall be provided with check valve. Concrete pad shall also be provided and concrete thrust block installed.
- C. Provide standard name plate marked "automatic sprinklers"
- 3.8 Alarm Valves:
- A. Install alarm check valve(s), complete with trim including paddle type waterflow indicator connected to fire alarm system where shown on plans.
- 3.9 Inspector's Test
- A. Provide inspector's test connections as specified in NFPA-13. Discharge orifice shall have same size orifice as majority of sprinklers installed.
- B. Pipe all inspector's test connection discharges to atmosphere at location where water drain will not damage stock, equipment, vehicles, planted areas, etc., injure personnel, or patrons, or cause an unsightly wet area in front of any entrance.
- C. All pipe and fittings downstream of inspector's test valve shall be galvanized
- 3.10 Sprinkler Guards and Water Shields:
- A. Provide guards for sprinklers within 7 feet of finish floor or wherever sprinklers may be subject to mechanical damage.
- 3.11 Welding and Flame Cutting:
- A. No welding or flame cutting by the Contractor shall be permitted on the premises.
- B. Shop welding (off-site) shall meet all NFPA-13 and related requirements. Retrieve all discs from piping
- 3.12 Final Inspection and Tests:
- A. Overhead sprinkler piping: Tested for a period of two hours at a hydrostatic pressure of 200 lbs. and all piping, valves, sprinklers, etc., shall be watertight.
- B. Underground piping: Tested for a period of two hours at a hydrostatic pressure of 200 lbs, in accordance with NFPA Standards. Leakage shall not exceed augnitities indicated.
- C. Replace piping system components which do not pass the test procedures specified, and retest repaired portion(s) of the system.
- D. All underground piping shall be thoroughly flushed in accordance with the requirements of NFPA Standards, prior to connection to overhead piping system. The flush test must be witnessed by all authorities having jurisdiction. A test shall be made before the trench in which pipe is laid is backfilled.
- E. The Contractor shall make arrangements with all authorities have jurisdiction for final inspection and witnessing of the final acceptance tests.
- F. If, when the Owner's consultant or any other authorities having jurisdiction visit the job site for this purpose after being advised by the Contractor that the work is completed and ready for test, the work has not been completed, or the final acceptance tests are unsatisfactory, the Contractor shall be responsible for Consultant's extra time and expenses for reinspection and witnessing the retesting of the work. Such extra fees shall be deducted from payments by the Owner to the Contractor.
- G. Contractor shall provide at least (5) working days notice to Architect and Owner for all
- H. Flushing of all piping shall be conducted with water flowing at a minimum velocity of 10 feet per second

END OF SECTION



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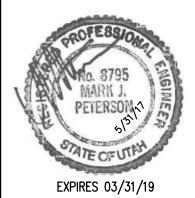
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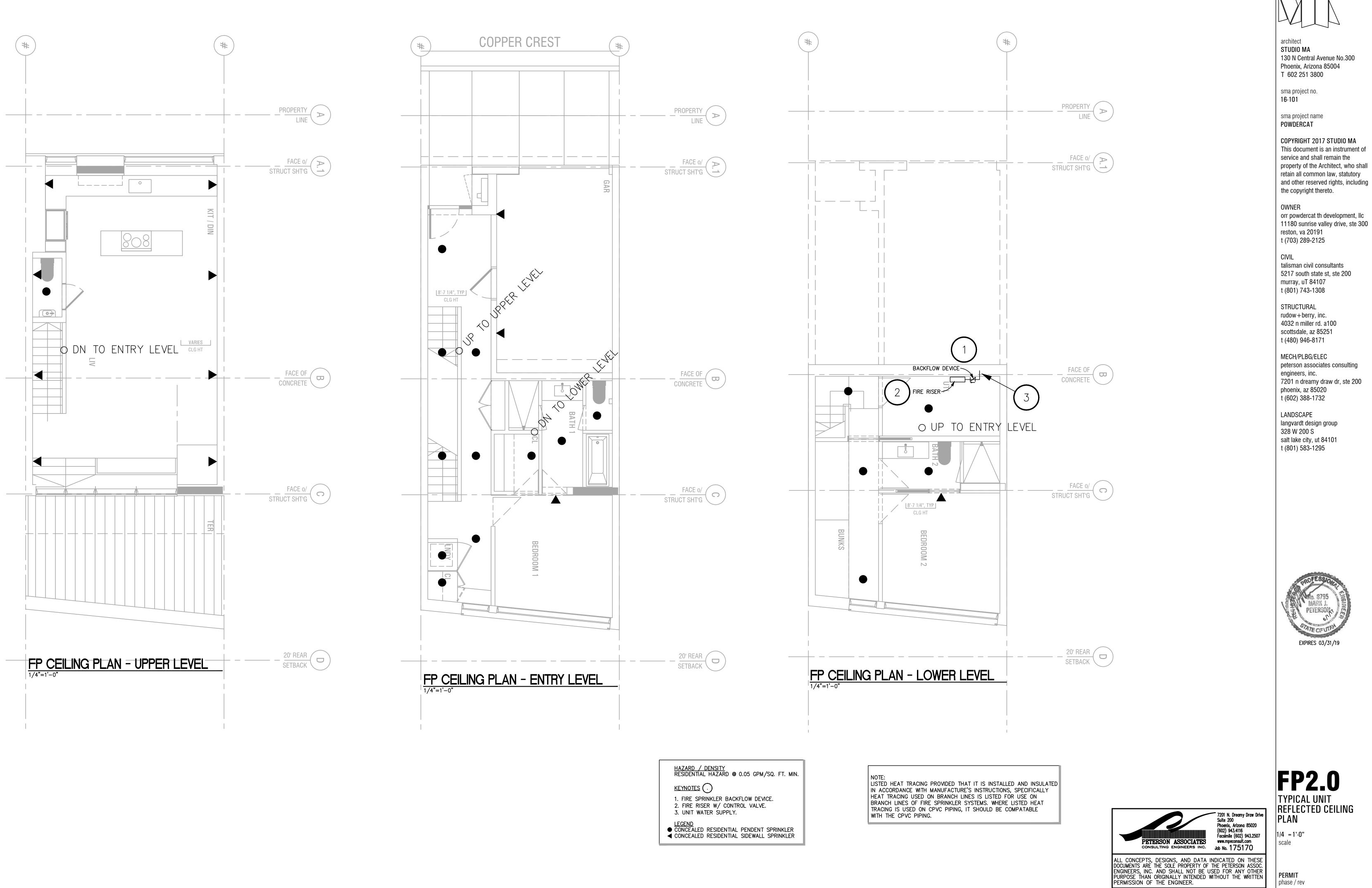
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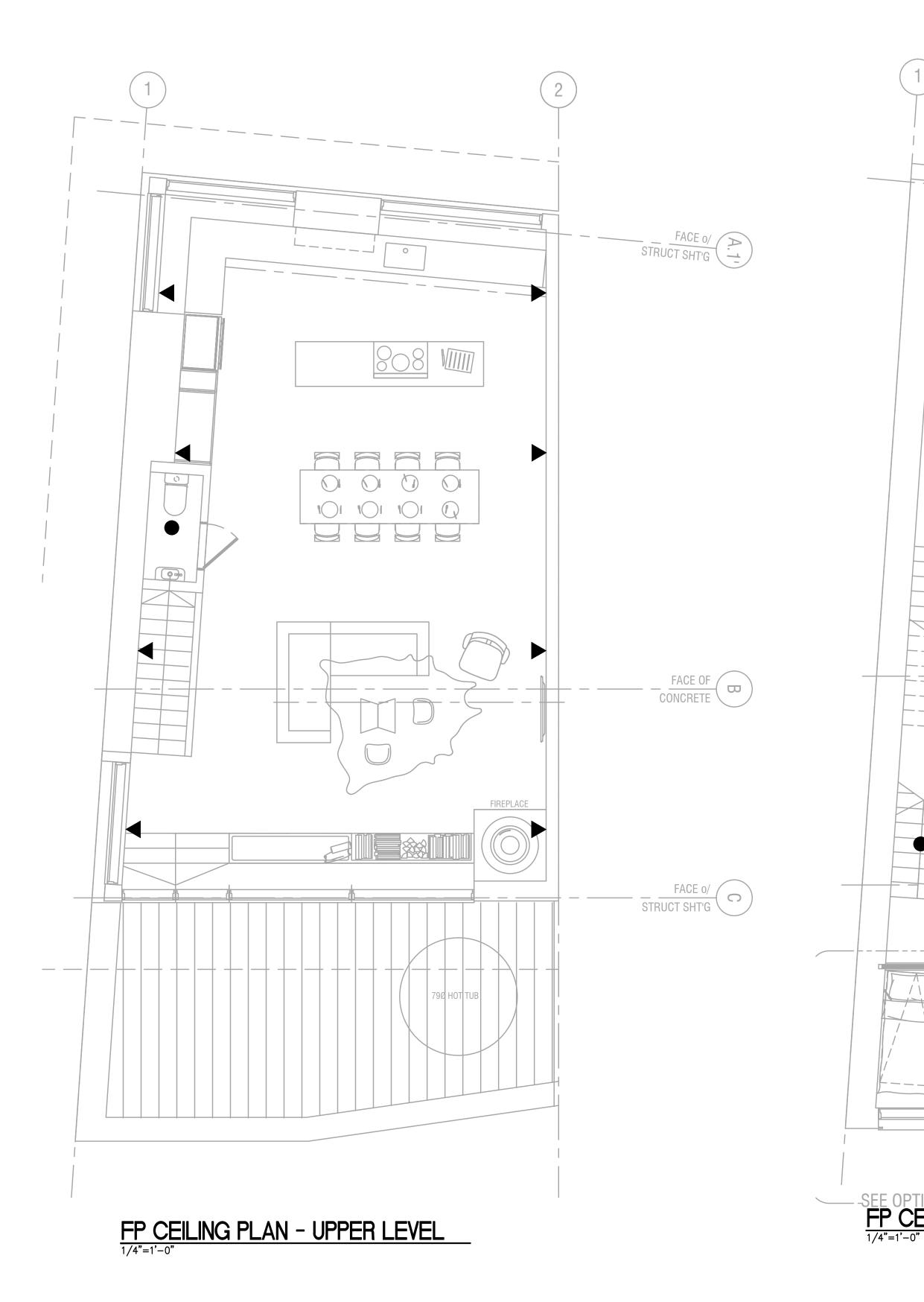


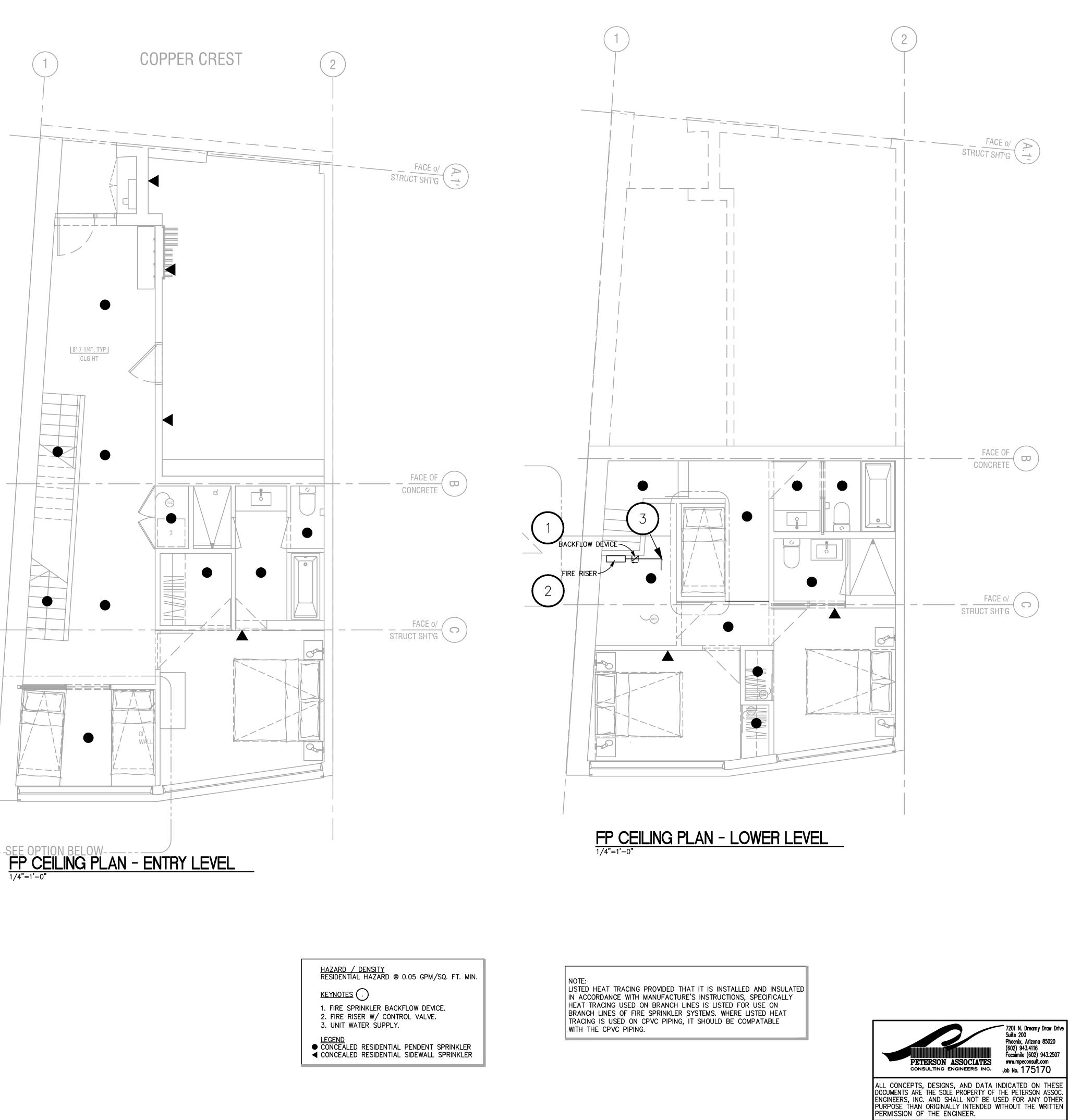
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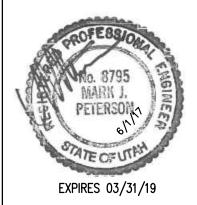
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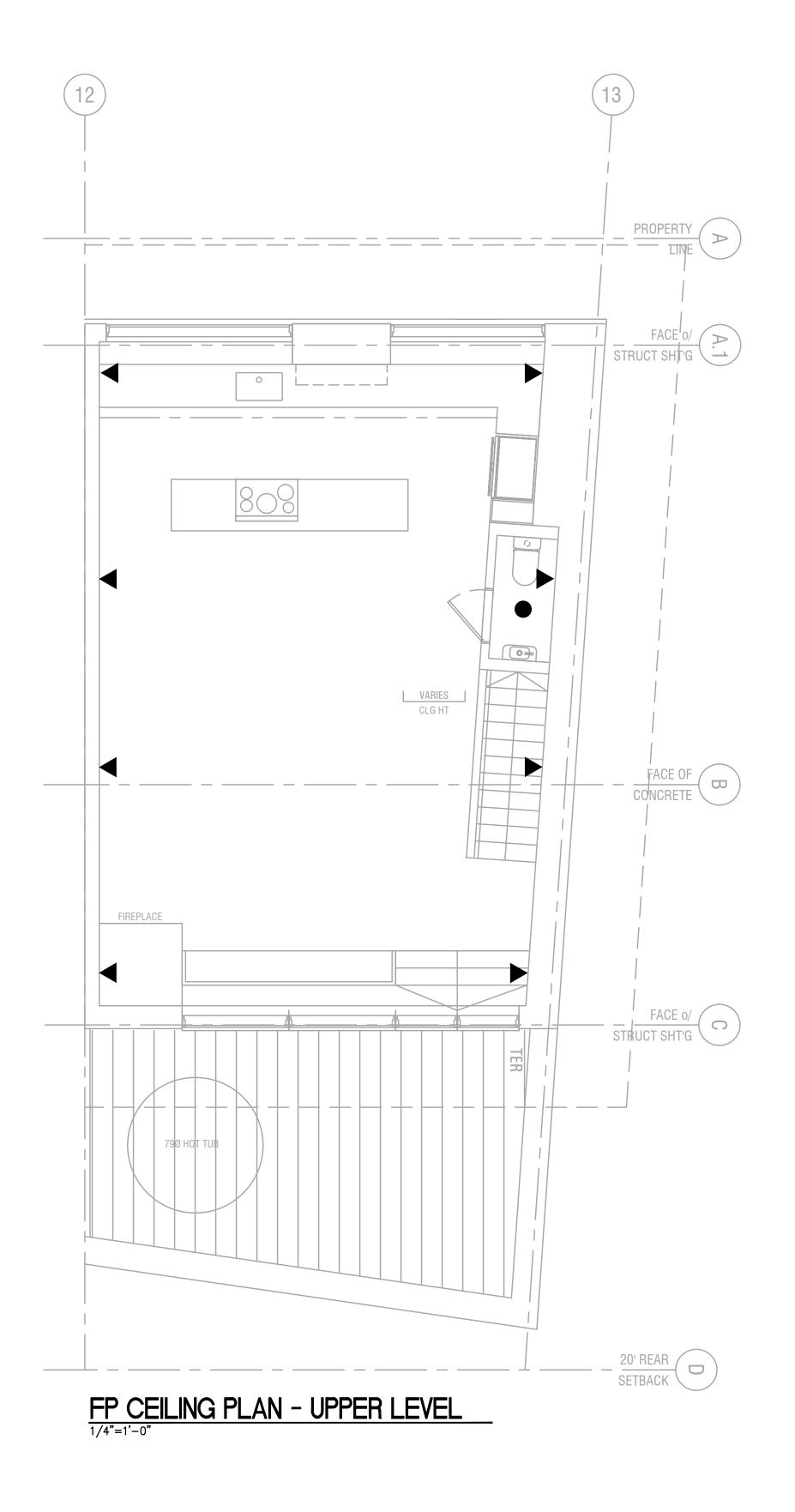
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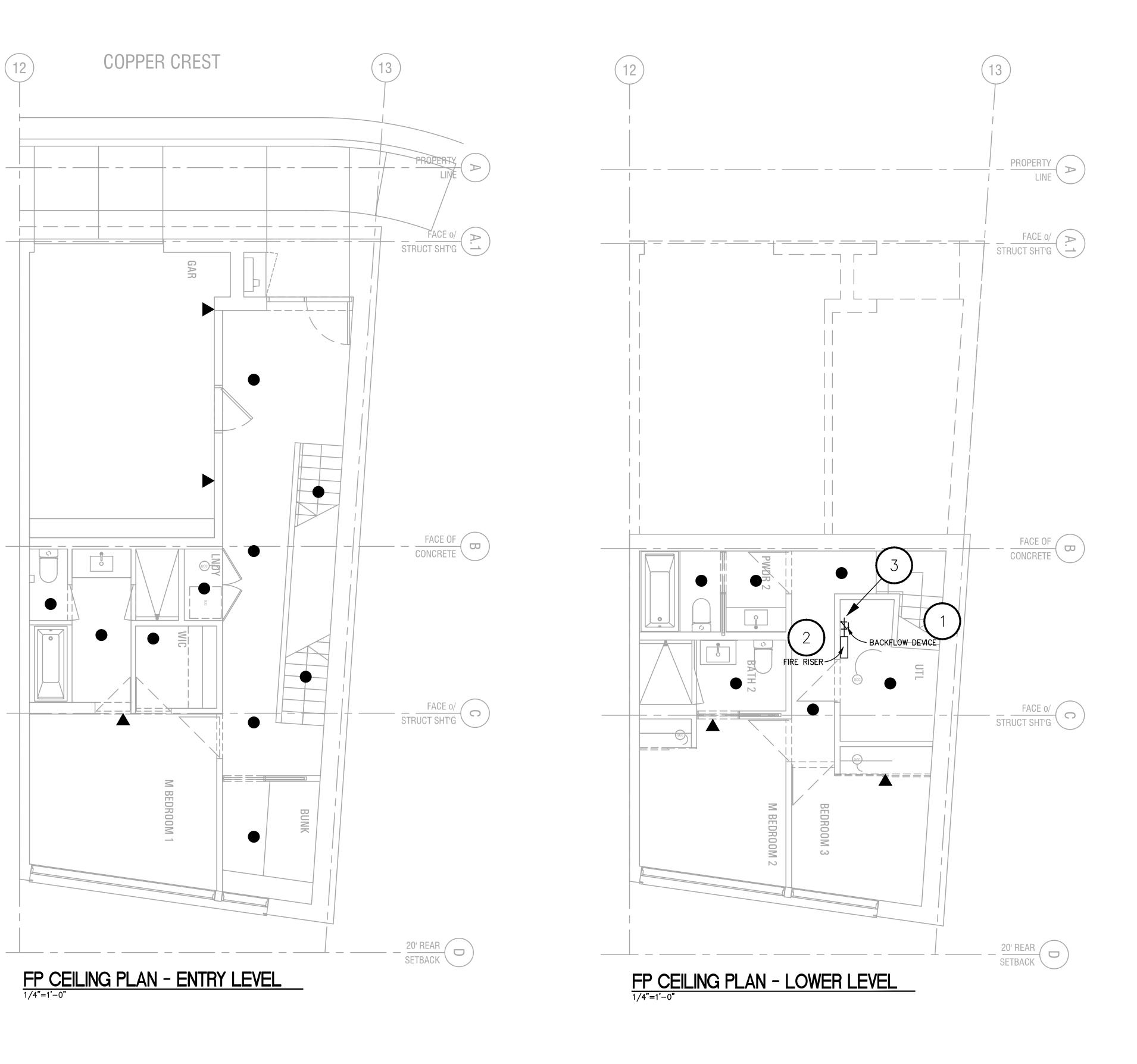
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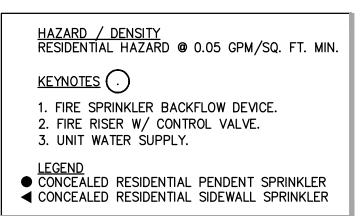


FP2.1 UNIT 124 Reflected Ceiling PLAN

1/4 = 1'-0" scale







NOTE: LISTED HEAT TRACING PROVIDED THAT IT IS INSTALLED AND INSULATED IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS, SPECIFICALLY HEAT TRACING USED ON BRANCH LINES IS LISTED FOR USE ON BRANCH LINES OF FIRE SPRINKLER SYSTEMS. WHERE LISTED HEAT TRACING IS USED ON CPVC PIPING, IT SHOULD BE COMPATABLE WITH THE CPVC PIPING.



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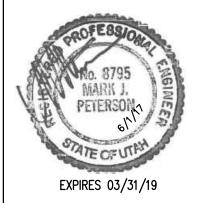
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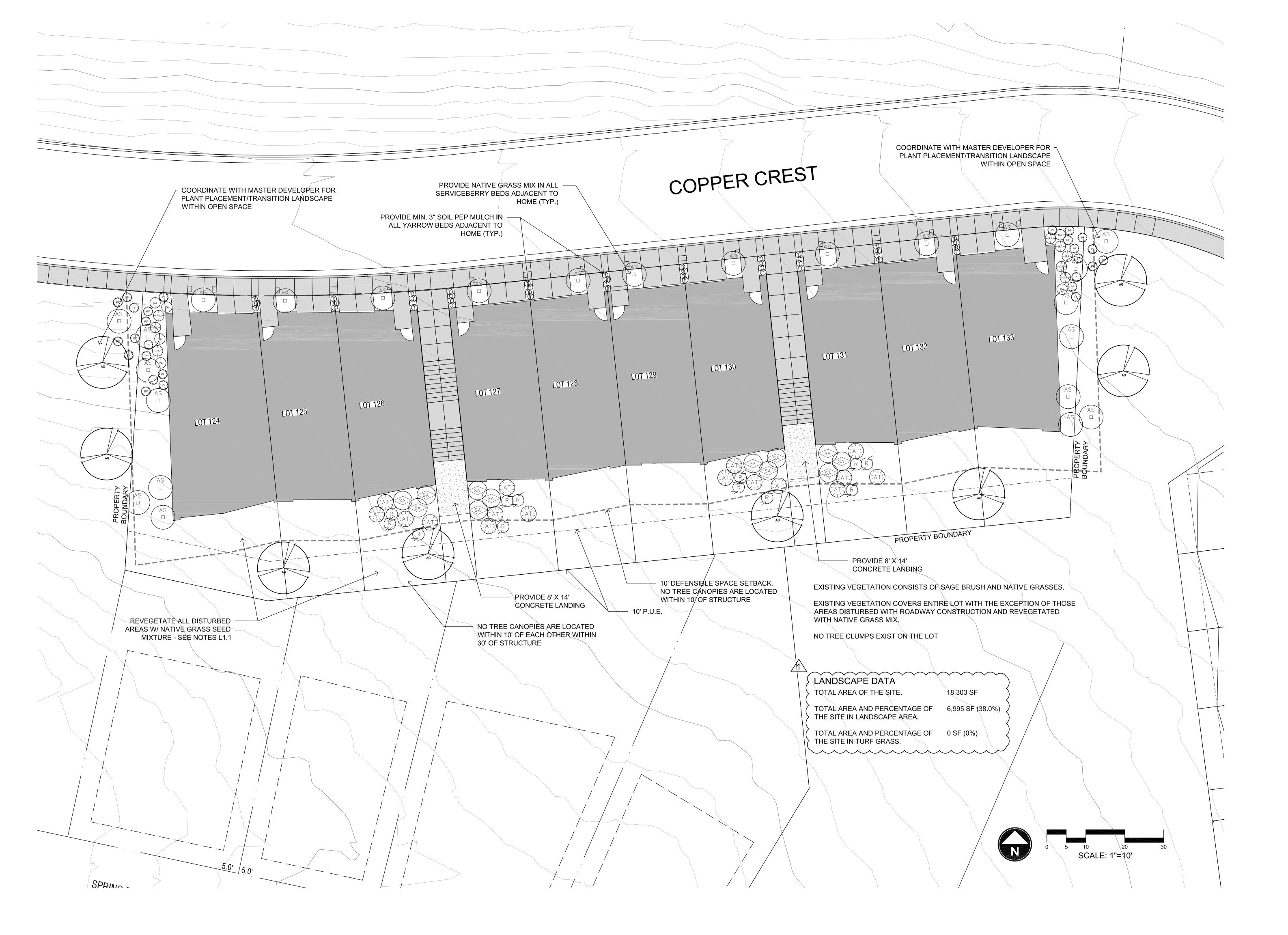
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FP2.2 UNIT 133 REFLECTED CEILING PLAN

1/4 = 1'-0" scale



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AS NOTED

PERMIT SET phase/rev 2017.06.03 date GENERAL LANDSCAPE NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES, AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE PROJECT MANAGER AND ALL OTHER CONTRACTORS WORKING ON THE SITE.

2. THE FINISH GRADE OF ALL PLANTING AREAS SHALL BE SMOOTH, EVEN AND CONSISTENT, FREE OF ANY HUMPS, DEPRESSIONS OR OTHER GRADING IRREGULARITIES. THE FINISH GRADE OF ALL LANDSCAPE AREAS SHALL BE GRADED CONSISTENTLY 3/4" BELOW THE TOP OF ALL SURROUNDING WALKS, CURBS, ETC.

3. THE CONTRACTOR SHALL FLAG THE LOCATION OF ALL PLANTS FOR APPROVAL PRIOR TO PLANTING.

4. THE PLANT MATERIALS LIST IS PROVIDED AS AN INDICATION OF THE SPECIFIC REQUIREMENTS OF THE PLANTS SPECIFIED, WHEREVER IN CONFLICT WITH THE PLANTING PLAN, THE PLANTING PLAN SHALL GOVERN.

5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED FOR THE PROPER COMPLETION OF ALL LANDSCAPE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS.

6. ALL PLANT MATERIALS SHALL BE APPROVED PRIOR TO PLANTING. THE OWNER/LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT ANY AND ALL PLANT MATERIAL NOT CONFORMING TO THE SPECIFICATIONS. THE OWNER/LANDSCAPE ARCHITECTS DECISION WILL BE FINAL.

7. THE CONTRACTOR SHALL KEEP THE PREMISES, STORAGE AREAS AND PAVING AREAS NEAT AND ORDERLY AT ALL TIMES. REMOVE TRASH, SWEEP, CLEAN, HOSE, ETC. DAILY.

8. THE CONTRACTOR SHALL PLANT ALL PLANTS PER THE PLANTING DETAILS, STAKE/GUY AS SHOWN. TOP OF ROOT BALLS SHALL BE PLANTED FLUSH WITH FINISH GRADE

9. THE CONTRACTOR SHALL NOT IMPEDE DRAINAGE IN ANY WAY. THE CONTRACTOR SHALL ALWAYS MAINTAIN POSITIVE DRAINAGE AWAY FROM THE BUILDING, WALLS, ETC.

10. THE CONTRACTOR SHALL MAINTAIN ALL WORK UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER. UPON COMPLETION OF LANDSCAPE WORK AN INSPECTION FOR ACCEPTANCE OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER/LANDSCAPE ARCHITECT FOR SCHEDULING OF INSPECTION AT LEAST SEVEN (7) DAYS IN ADVANCE.

11. THE CONTRACTOR SHALL MAINTAIN AND GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. REPLACEMENT PLANTS SHALL BE GUARANTEED FOR AN ADDITIONAL 90 DAYS. MAINTENANCE SHALL INCLUDE MOWING, WEEDING, FERTILIZING, CLEANING, INSECTICIDES, HERBICIDES, ETC.

12. ALL DISTURBED AREAS ARE TO BE SEEDED WITH STANDARD SEED MIXTURE.

STANDARD SEED MIX

<u>SPECIES</u>

LOLIUM PERENNE ELYMUS TRACHYCAULUS PSEUDOROEGNERIA SPICATA V. SECAR PASCOPYRUN SMITHII FESTUCA OVINA LINUM LEWISI A. TRIDENTATA SP. WYOMINGENSIS TOTAL

| PLANTING RATE (PLS#'S/ACRE) | | | | | |
|-----------------------------|-----|--|--|--|--|
| | | | | | |
| PERENNIAL RYEGRASS | 8.7 | | | | |
| SLENDER WHEATGRASS | 7.0 | | | | |
| BLUEBUNCH WHEATGRASS | 5.2 | | | | |
| WESTERN WHEATGRASS | 5.2 | | | | |
| SHEEP FESCUE | 3.5 | | | | |
| BLUE FLAX | 1. | | | | |
| SAGEBRUSH | 1. | | | | |
| | 32 | | | | |
| | | | | | |

GROUND PLANE IRRIGATION NOTES:

1. ALL PLANT MATERIALS SHOWN ON THE DRAWING SHALL BE SERVICED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. ALL SHRUB BED AREAS, INCLUDING TREES SHALL BE IRRIGATED WITH A LOW PRESSURE DRIP IRRIGATION SYSTEM. ALL NATIVE GRASS AREAS SHALL BE IRRIGATED WITH A BROADCAST IRRIGATION SYSTEM.

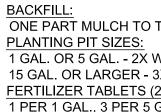
2. THE CONTRACTOR IS TO HAVE A QUALIFIED IRRIGATION SYSTEM SPECIALIST PREPARE A DESIGN FOR AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM AND SUBMIT DRAWINGS TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS PRIOR TO THE SYSTEM INSTALLATION.

3. UNDERGROUND IRRIGATION SYSTEM DRAWINGS SHALL BE PREPARED ON 24"X 36" SHEETS, NEATLY DRAWN AND VERY LEGIBLE. DRAWINGS ARE TO INCLUDE HEAD SPACING, TYPES OF HEADS, PIPING WITH SIZES, VALVES, FITTINGS AND ALL OTHER ITEMS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEM.

4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL IRRIGATION SLEEVES PRIOR TO PLACEMENT OF HARD IMPROVEMENTS. COORDINATE WITH THE GENERAL CONTRACTOR.

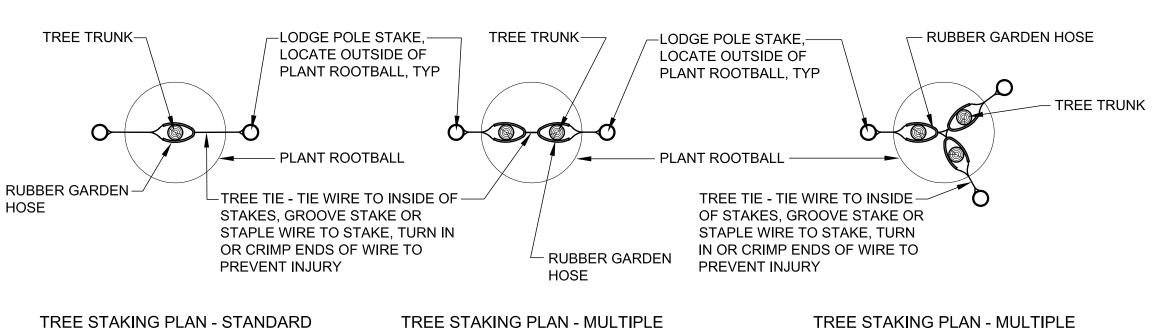
5. THE UTILITY CONTRACTOR IS TO PROVIDE AN IRRIGATION SYSTEM CONNECTION TO EITHER THE CULINARY OR SECONDARY WATER LINE WITH A BACK FLOW PREVENTION DEVICE, AS APPLICABLE, WITHIN STATE AND LOCAL JURISDICTIONAL CODES. THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO COORDINATE THIS ITEM WITH THE UTILITY CONTRACTOR. IF SECONDARY WATER IS USED, THE SYSTEM SHALL BE FILTERED WITH A CLEANABLE FILTER SYSTEM.

6. THE IRRIGATION CONTROL BOX SHALL BE LOCATED AT THE DIRECTION OF THE PROJECT MANAGER/OWNER OR ARCHITECT.



TOP OF ROOT BALL 1"-2" -ABOVE PLANT WELL





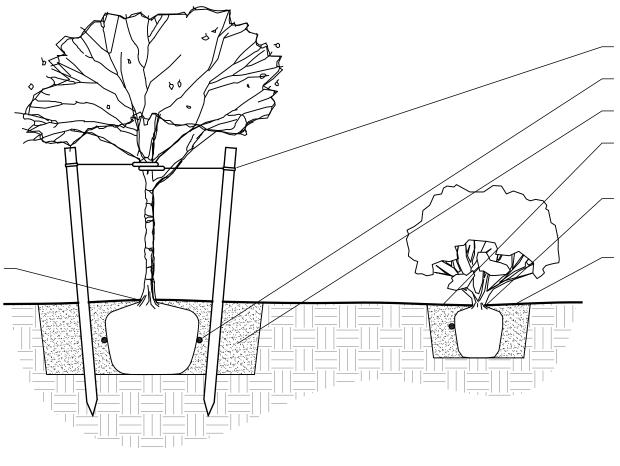
HOSE

TREE STAKING PLAN - STANDARD



ONE PART MULCH TO THREE PARTS NATIVE SOIL.

1 GAL. OR 5 GAL. - 2X WIDTH OF ROOT BALL, DEPTH = ROOT BALL + 6" 15 GAL. OR LARGER - 3X WIDTH OF ROOT BALL, DEPTH = ROOT BALL + 12" FERTILIZER TABLETS (21 GRAM AGRIFORM TABLETS) 1 PER 1 GAL., 3 PER 5 GAL., 5 PER 15 GAL., 1 PER 3" OF BOX SIZE (24" BOX OR LARGER)



REE AND SHRUB PLANTING DETAIL

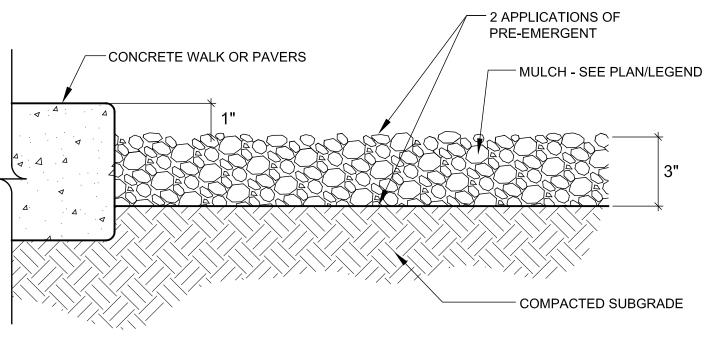
SEE STAKING DETAIL

FERTILIZER TABLET - BACKFILL

3" MIN. ORGANIC MULCH SHOULD NOT TOUCH TRUNK

SET TOP OF ROOT BALL 1/2" ABOVE PLANT WELL

PLANT WELL SHALL BE GENTLE, 1"-2" DEPTH



NOTES 1. SUBMIT MATERIAL TO LANDSCAPE ARCHITECT FOR APPROVALS. 2. PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE BEFORE INSTALLATION OF MULCH. 3. FINAL APPLICATION OF PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE AFTER INSTALLATION OF COBBLE IS RAKED SMOOTH AND UNIFORM.



QUANTITY SYMB 42

6,590 S.F.

SHRUB BED NOTE:

ALL SHRUB BEDS SHALL CONSIST OF NATIVE GRASS SEED MIXTURE UNLESS NOTED ON THE PLAN - SEE GENERAL LANDSCAPE NOTE 12.

DEFENSIBLE SPACE NOTE: TREES.

PLANT SPACING SPACING (x) | ROW (y) | AREA PER PLANT 3 FT. O.C. | 2.60 FT. | 7.80 FT² 4 FT. O.C. 3.46 FT. 13.84 FT² MULCH SOIL TO A DEPTH OF 2", 1' IN DIAMETER. KEEP MULCH 2" AWAY FROM PLANT BASE - PREPARE SOIL PER SPECIFICATIONS AND ROTOTILL TO A DEPTH OF 6" PRIOR TO ANY SPRINKLER WORK BACKFILL WITH NATIVE SOIL. APPLY FERTILIZER TO SURFACE AWAY FROM TRUNK PER SPECIFICATIONS

ALL GROUNDCOVERS TO BE PLANTED ON CENTER (SEE PLANT

LEGEND) IN A TRIANGULAR PATTERN.

PERENNIAL/GROUNDCOVER PLANTING DETAIL

 \Box

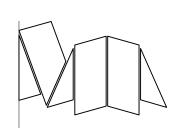
NOTE

3 TREE STAKING DETAIL note: only provide staking if conditions require it

Plant Schedule

| OL | BOTANICAL/COMMON NAME | | INSTALLED SIZE |
|---------|---|------|----------------|
| | SHRUBS | | |
| | Acer ginnala 'Flame' Amur Maple | | 8' CLUMP |
| | Achillea filipendulina Yellow Yarrow | | 1 Gal. |
| | Amelanchier alnifolia Saskatoon Saskatoon Serviceberry | | 5 Gal. |
| (AT) | Artemisia Tridentata Big Sagebrush | | 5 Gal. |
| Ť | Chrysothamnus nauseosus Rubber Rabbitbrush | | 5 GAL. |
| PF V | Potentilla fruiticosa 'Jackmanii' Jackman Potentilla | | 5 Gal. |
| | Ribes alpinium Alpine Currant | | 5 Gal. |
| SA) | Symphoricarpos alba Snowberry | | 5 Gal. |
| | Native Grass Mix (See Notes) | Seed | |

CANNOT HAVE TREES WITHIN 10 FEET OF ANY STRUCTURE. TREES SHALL BE PRUNED TO MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET FROM THE STRUCTURE. TREES WITHIN THE DEFENSIBLE SPACE SHALL BE PRUNED TO REMOVE LIMBS AND FUEL LADDERS TO A HEIGHT OF 6 FEET ABOVE THE GROUND SURFACE ADJACENT TO THE



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sma project no. 16-101

sma project name POWDERCAT

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